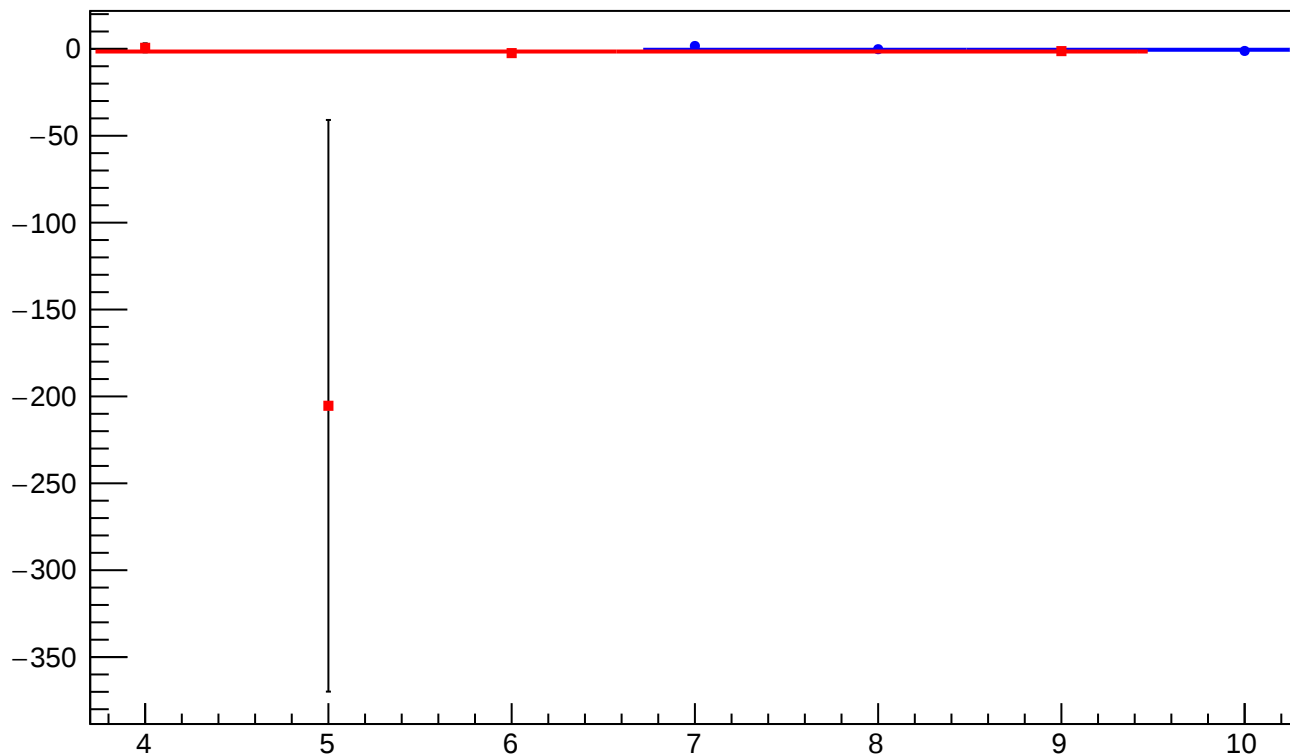


diff\_cav4bX\_mean vs slug



Right In: -0.504+/-0.536

$\chi^2/\text{NDF}$ : 3.3/2

Left Out: 0.000+/-0.000

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

Right Out: -1.524+/-0.790

$\chi^2/\text{NDF}$ : 2.8/3

-0.504+/-0.536

$\chi^2/\text{NDF}$ : 3.3/2

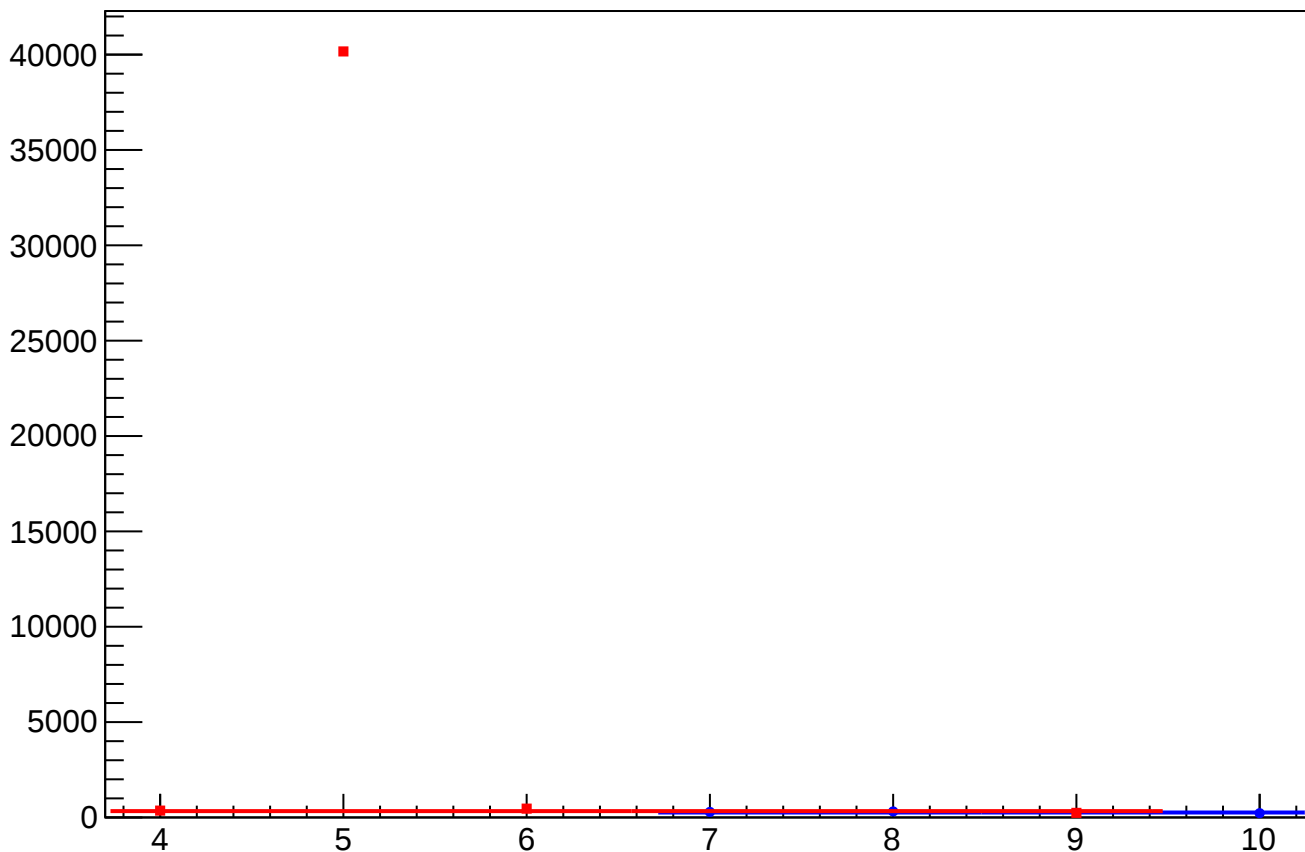
-1.524+/-0.790

$\chi^2/\text{NDF}$ : 2.8/3

Left In: 0.000+/-0.000

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

# diff\_cav4bX\_rms vs slug



Right In: 259.668 $\pm$ 0.379  $\chi^2$ /NDF: 12325.1/2

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

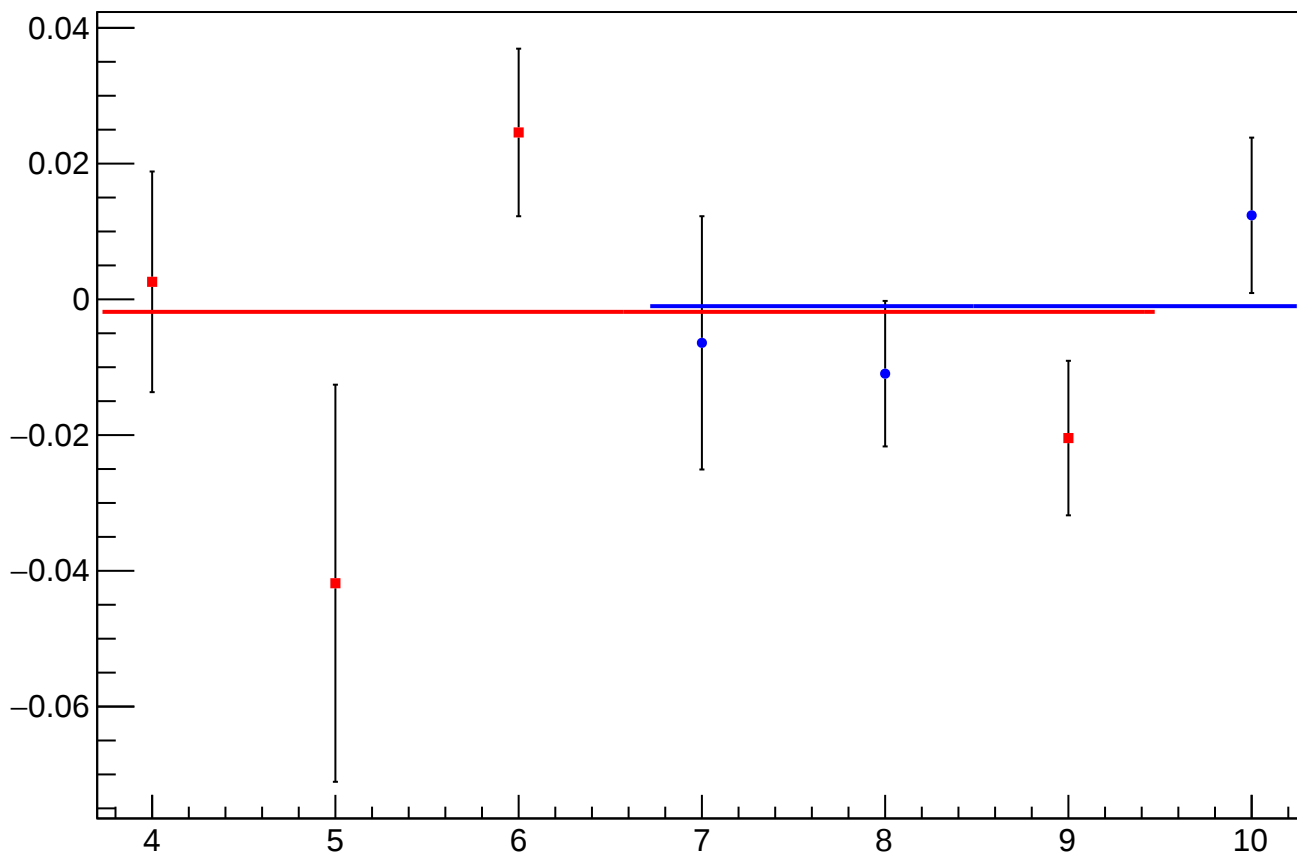
Right Out: 332.399 $\pm$ 0.558  $\chi^2$ /NDF: 151943.9/3

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

259.668 $\pm$ 0.379  $\chi^2$ /NDF: 12325.1/2

332.399 $\pm$ 0.558  $\chi^2$ /NDF: 151943.9/3

# diff\_cav4bY\_mean vs slug



Right In: -0.001+/-0.007  $\chi^2/\text{NDF}$ : 2.3/2

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

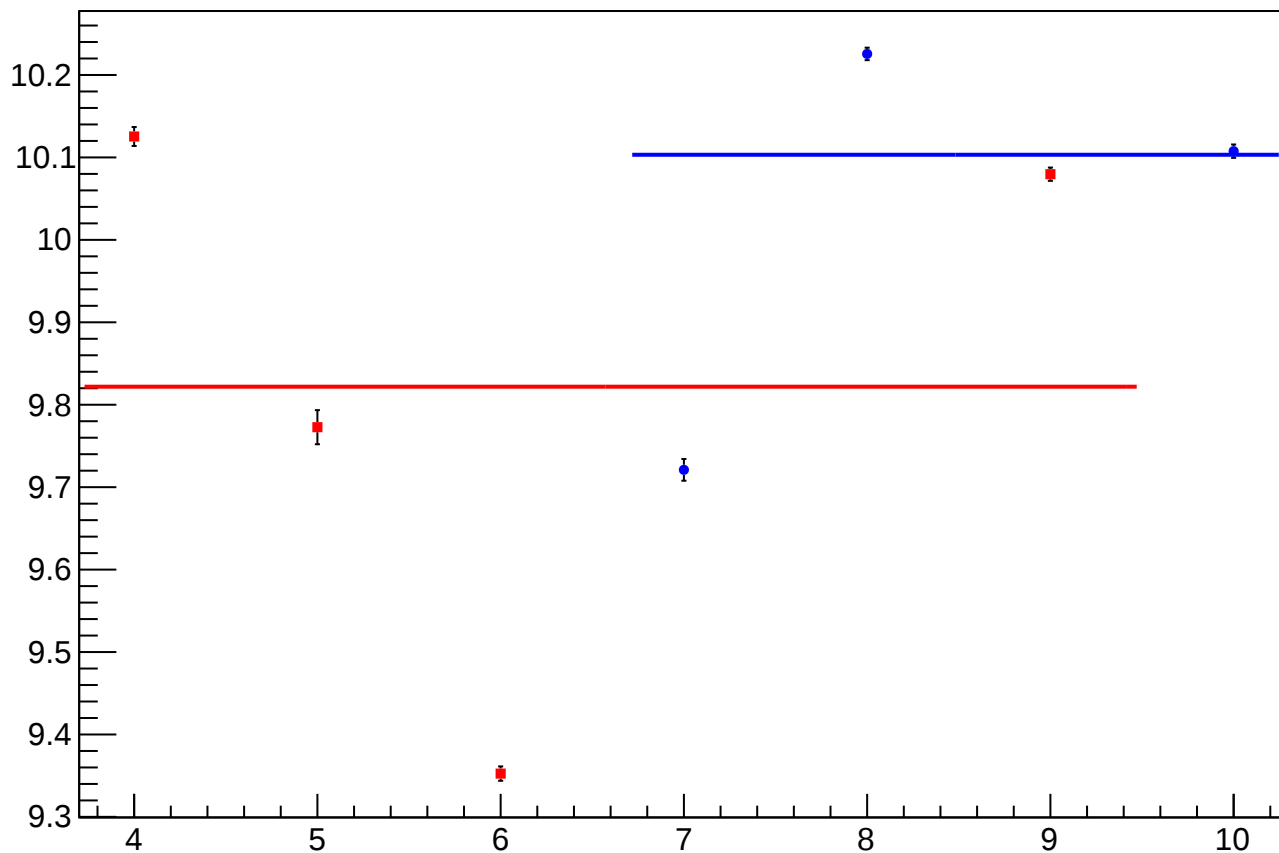
Right Out: -0.002+/-0.007  $\chi^2/\text{NDF}$ : 9.2/3

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

-0.001+/-0.007  $\chi^2/\text{NDF}$ : 2.3/2

-0.002+/-0.007  $\chi^2/\text{NDF}$ : 9.2/3

# diff\_cav4bY\_rms vs slug



Right In: 10.103+/-0.005  $\chi^2/\text{NDF}$ : 1099.8/2

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

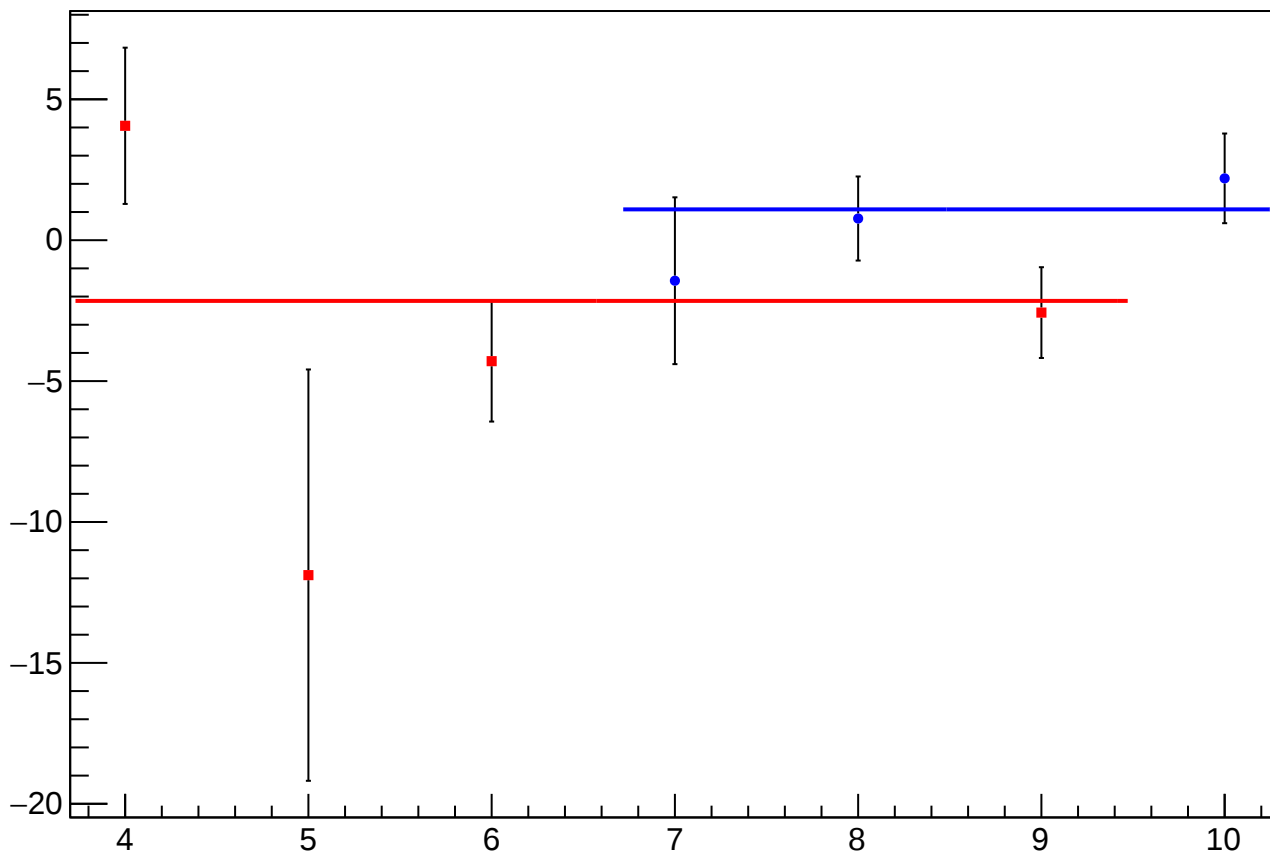
Right Out: 9.822+/-0.005  $\chi^2/\text{NDF}$ : 4619.1/3

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

10.103+/-0.005  $\chi^2/\text{NDF}$ : 1099.8/2

9.822+/-0.005  $\chi^2/\text{NDF}$ : 4619.1/3

# diff\_cav4cX\_mean vs slug



Right In: 1.094 $\pm$ 1.021  $\chi^2$ /NDF: 1.3/2

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

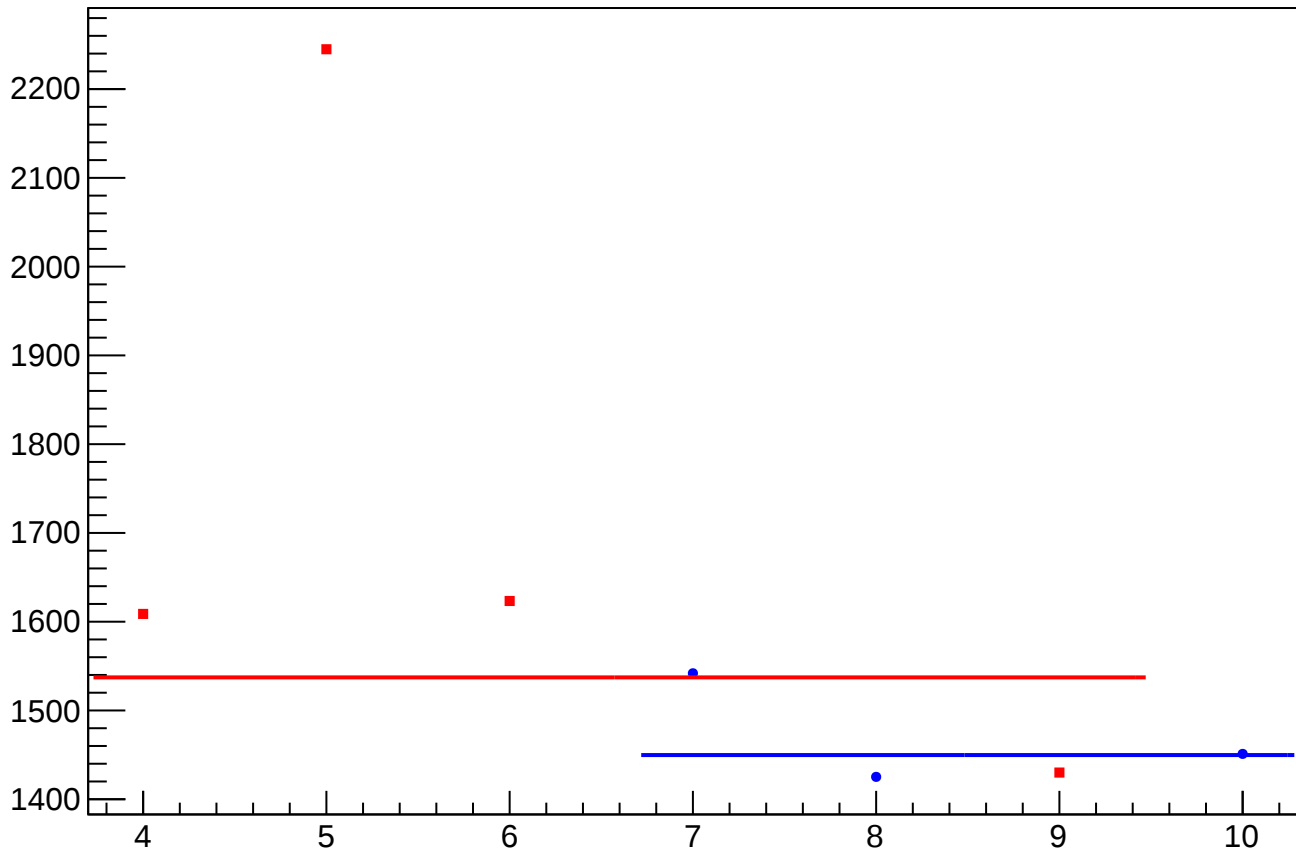
Right Out: -2.154 $\pm$ 1.153  $\chi^2$ /NDF: 7.9/3

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

1.094 $\pm$ 1.021  $\chi^2$ /NDF: 1.3/2

-2.154 $\pm$ 1.153  $\chi^2$ /NDF: 7.9/3

# diff\_cav4cX\_rms vs slug



Right In: 1449.766 $\pm$ 0.722  $\chi^2$ /NDF: 2481.0/2

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

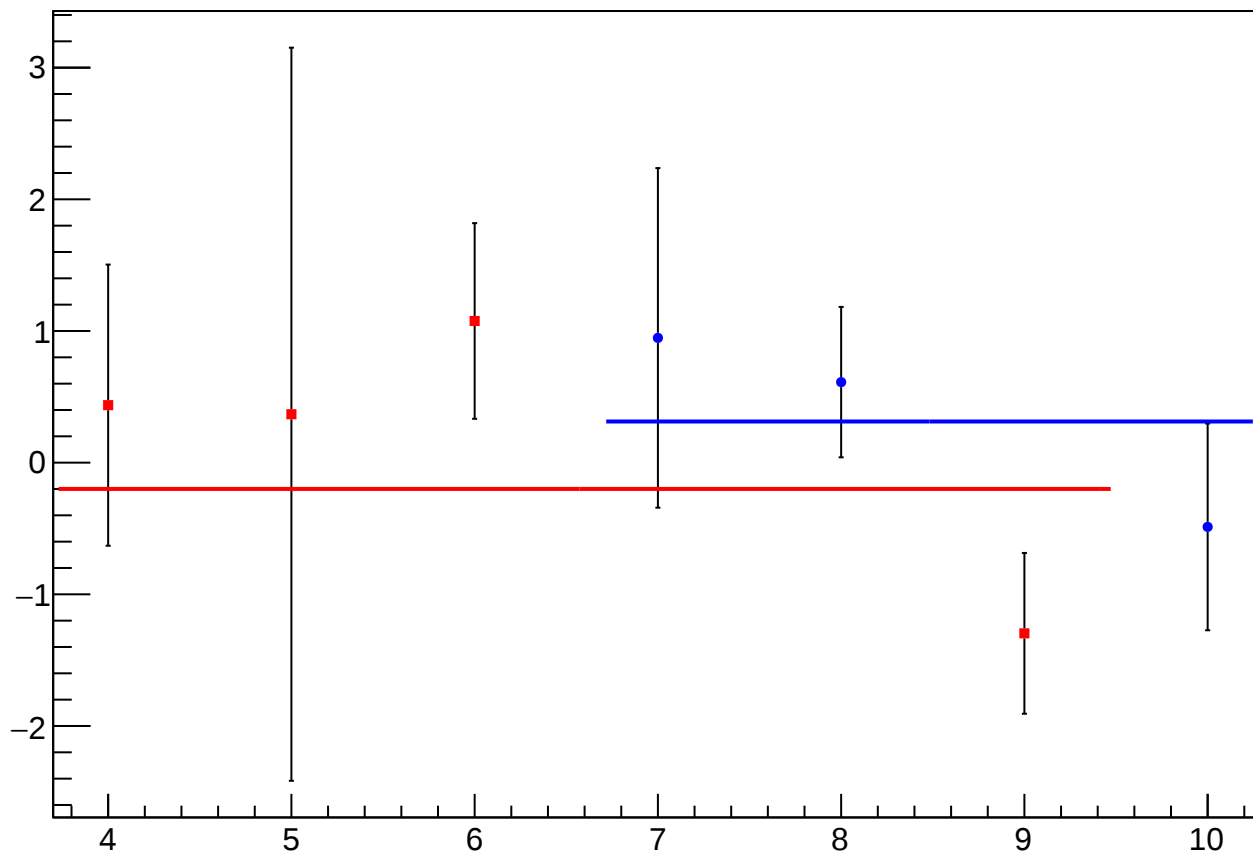
1449.766 $\pm$ 0.722  $\chi^2$ /NDF: 2481.0/2

Right Out: 1537.266 $\pm$ 0.815  $\chi^2$ /NDF: 32218.2/3

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

1537.266 $\pm$ 0.815  $\chi^2$ /NDF: 32218.2/3

# diff\_cav4cY\_mean vs slug



Right In: 0.313+/-0.435  $\chi^2/\text{NDF}$ : 1.6/2

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

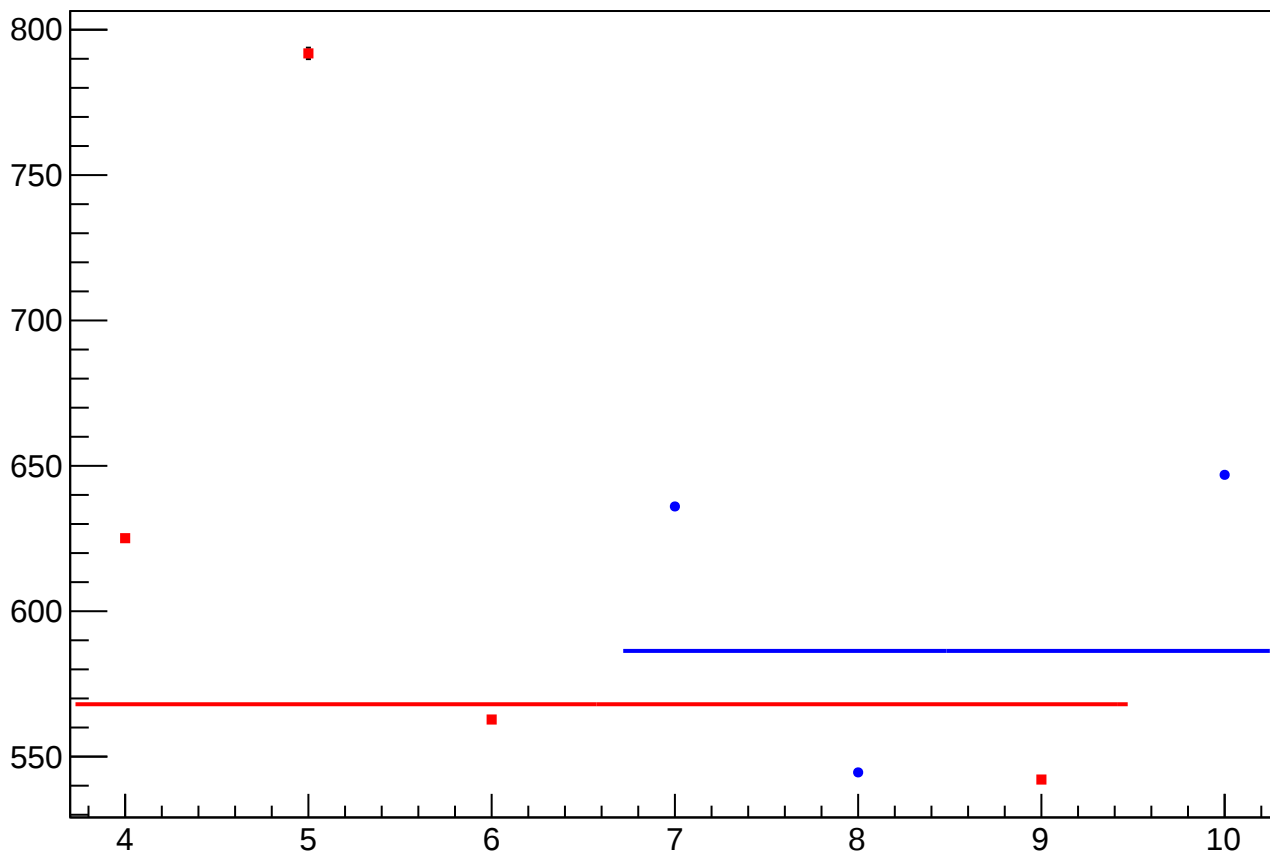
Right Out: -0.200+/-0.426  $\chi^2/\text{NDF}$ : 6.6/3

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

0.313+/-0.435  $\chi^2/\text{NDF}$ : 1.6/2

-0.200+/-0.426  $\chi^2/\text{NDF}$ : 6.6/3

# diff\_cav4cY\_rms vs slug



Right In: 586.352 $\pm$ 0.307  $\chi^2$ /NDF: 25572.2/2

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

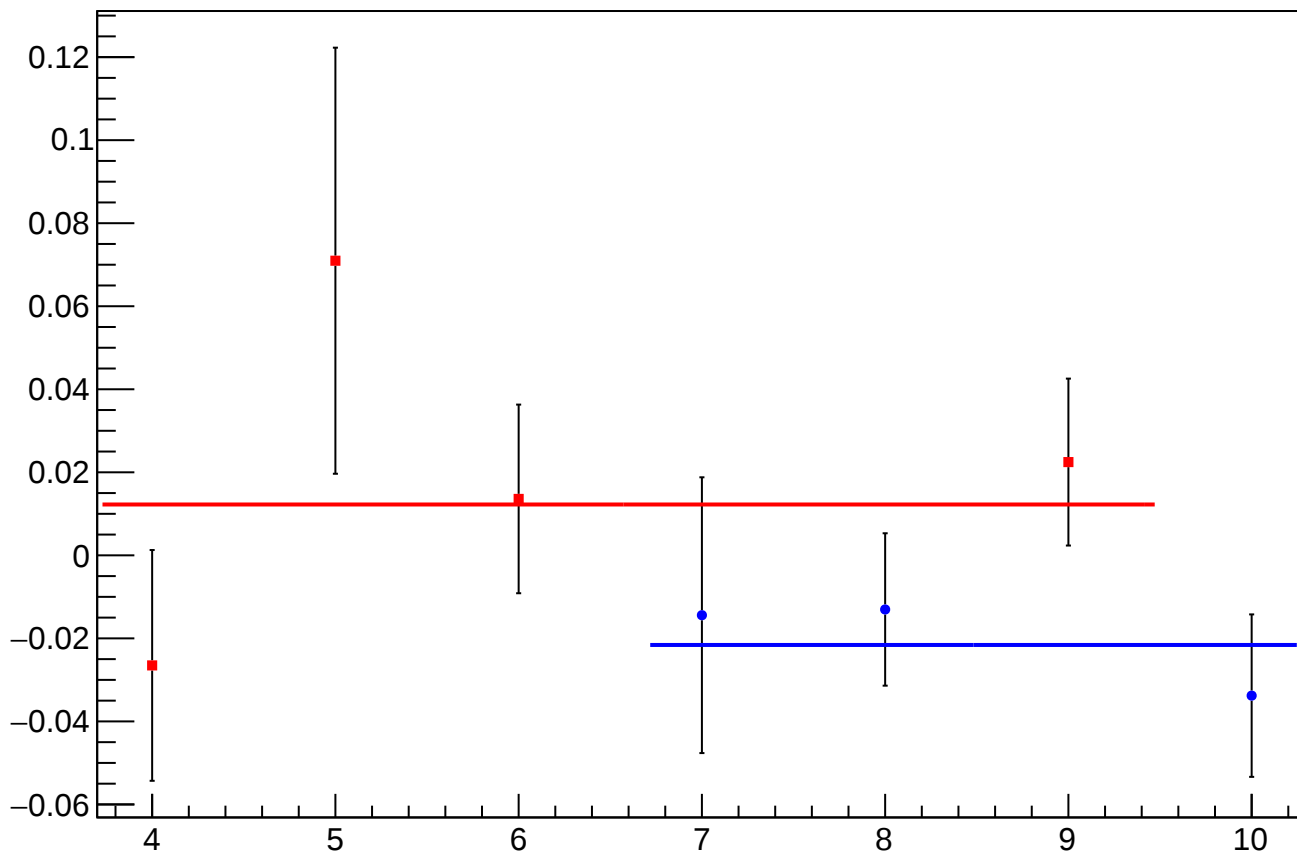
586.352 $\pm$ 0.307  $\chi^2$ /NDF: 25572.2/2

Right Out: 568.008 $\pm$ 0.302  $\chi^2$ /NDF: 22348.6/3

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

568.008 $\pm$ 0.302  $\chi^2$ /NDF: 22348.6/3

# diff\_cav4dX\_mean vs slug



Right In: -0.022 $\pm$ 0.012  $\chi^2$ /NDF: 0.7/2

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

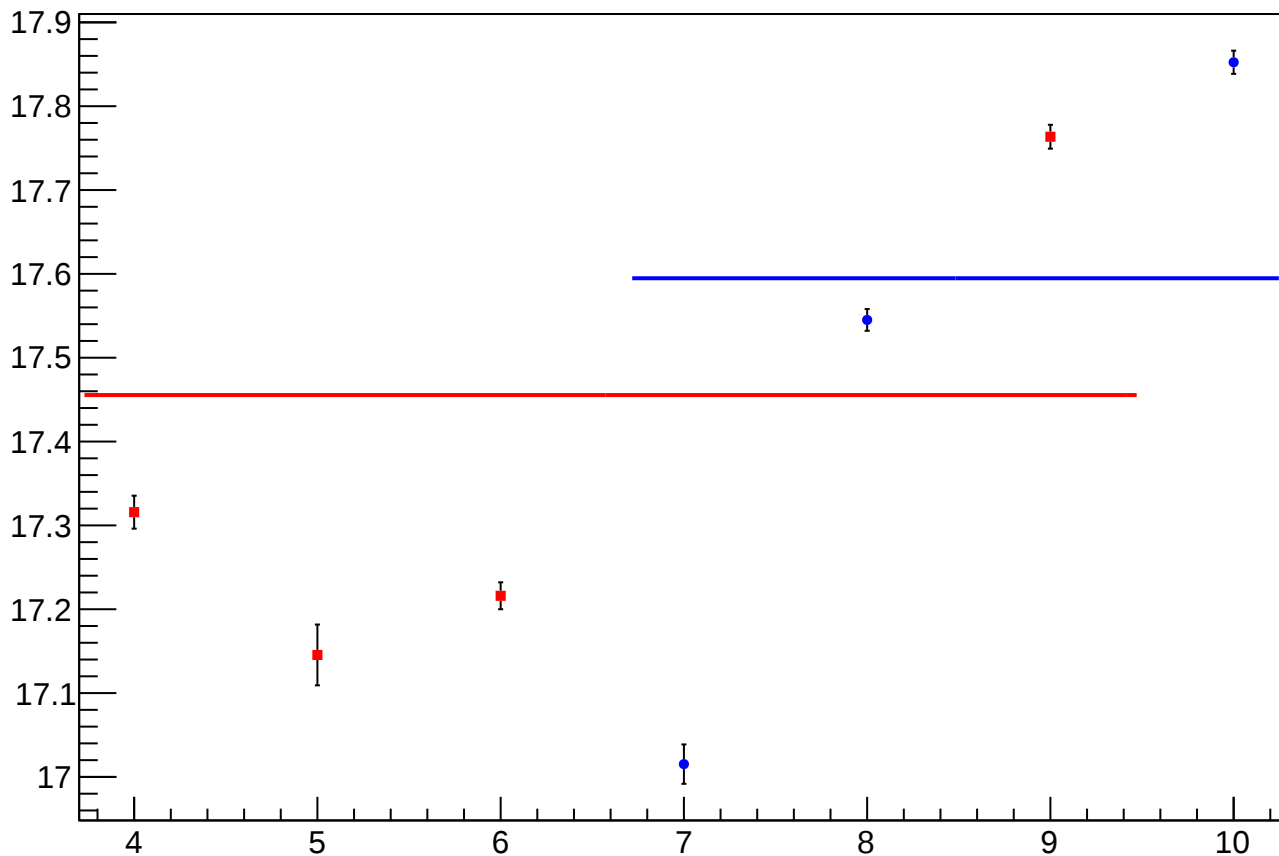
Right Out: 0.012 $\pm$ 0.013  $\chi^2$ /NDF: 3.5/3

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

-0.022 $\pm$ 0.012  $\chi^2$ /NDF: 0.7/2

0.012 $\pm$ 0.013  $\chi^2$ /NDF: 3.5/3

# diff\_cav4dX\_rms vs slug



Right In: 17.595+/-0.009  $\chi^2/\text{NDF}$ : 970.3/2

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

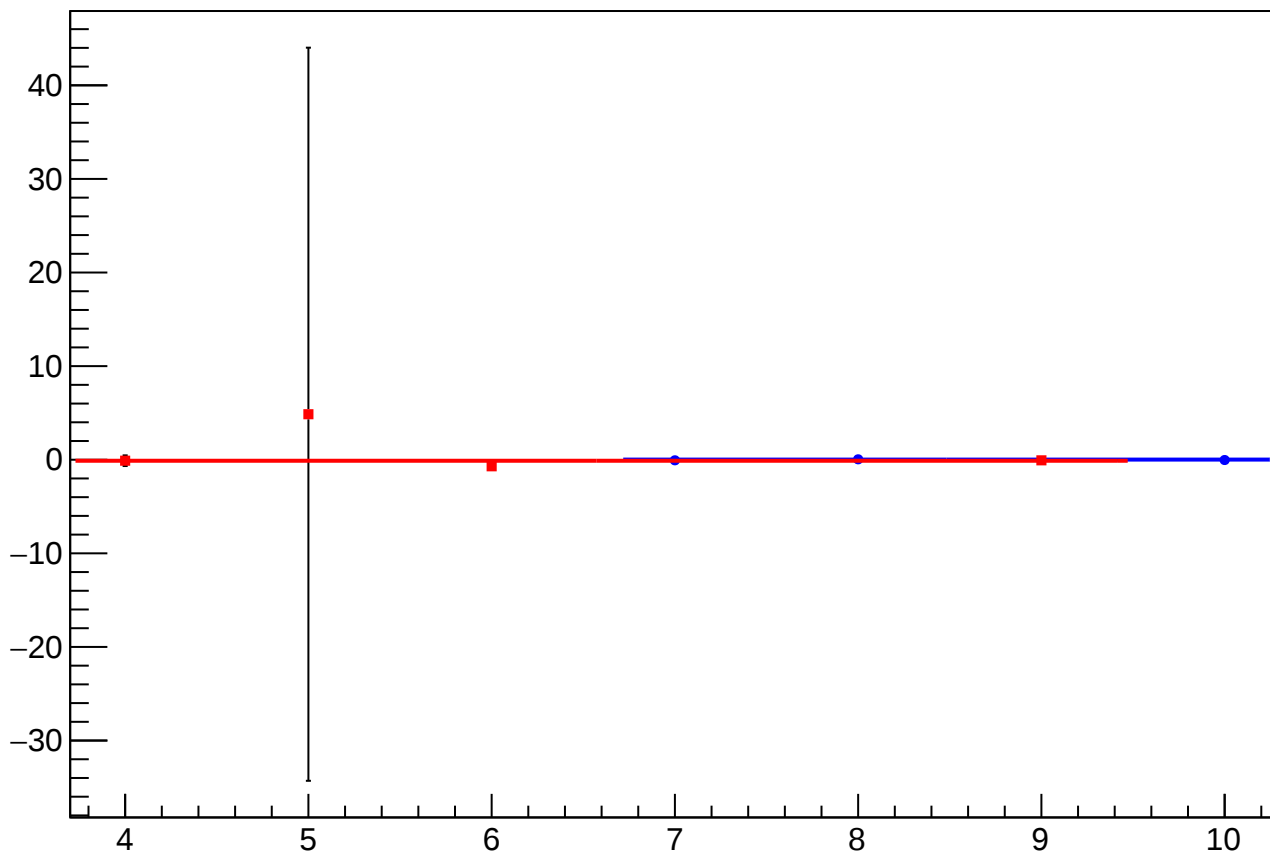
Right Out: 17.455+/-0.009  $\chi^2/\text{NDF}$ : 815.5/3

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

17.595+/-0.009  $\chi^2/\text{NDF}$ : 970.3/2

17.455+/-0.009  $\chi^2/\text{NDF}$ : 815.5/3

# diff\_cav4dY\_mean vs slug



Right In: 0.015+/-0.072  $\chi^2/\text{NDF}$ : 0.3/2

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

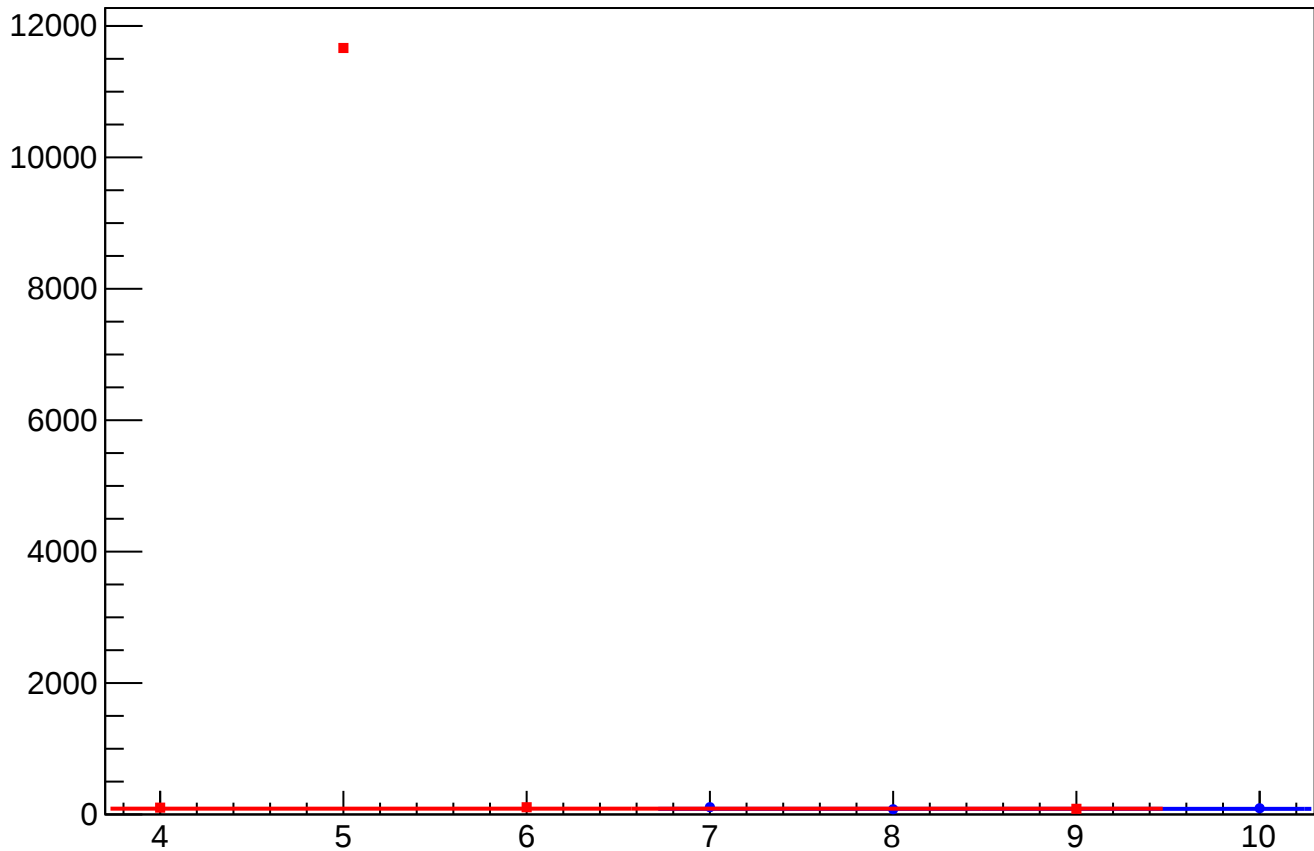
Right Out: -0.110+/-0.109  $\chi^2/\text{NDF}$ : 2.2/3

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

0.015+/-0.072  $\chi^2/\text{NDF}$ : 0.3/2

-0.110+/-0.109  $\chi^2/\text{NDF}$ : 2.2/3

# diff\_cav4dY\_rms vs slug



Right In: 85.255+/-0.051  $\chi^2/\text{NDF}$ : 26879.3/2

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

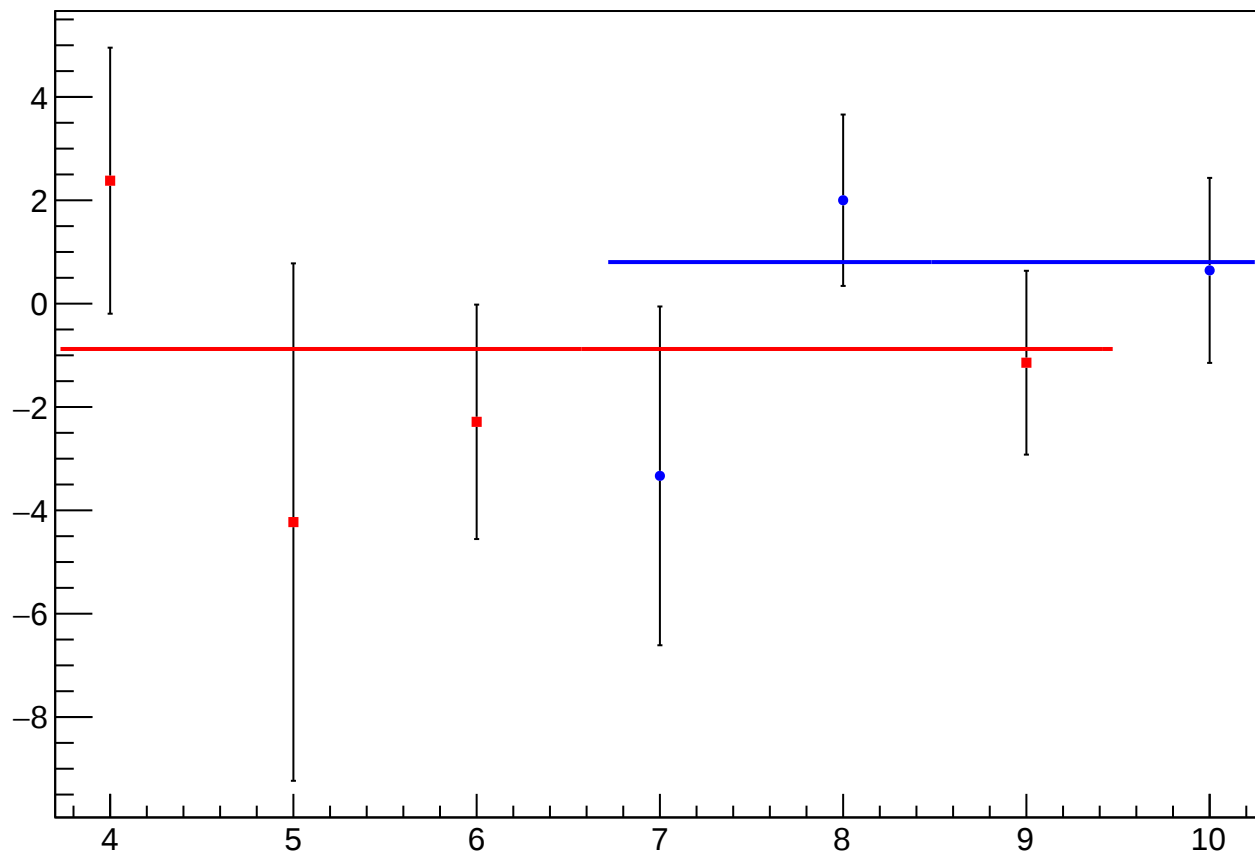
85.255+/-0.051  $\chi^2/\text{NDF}$ : 26879.3/2

Right Out: 88.301+/-0.077  $\chi^2/\text{NDF}$ : 182386.2/3

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

88.301+/-0.077  $\chi^2/\text{NDF}$ : 182386.2/3

# diff\_bpm4aX\_mean vs slug



Right In:  $0.804 \pm 1.140$   $\chi^2/\text{NDF}: 2.1/2$

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

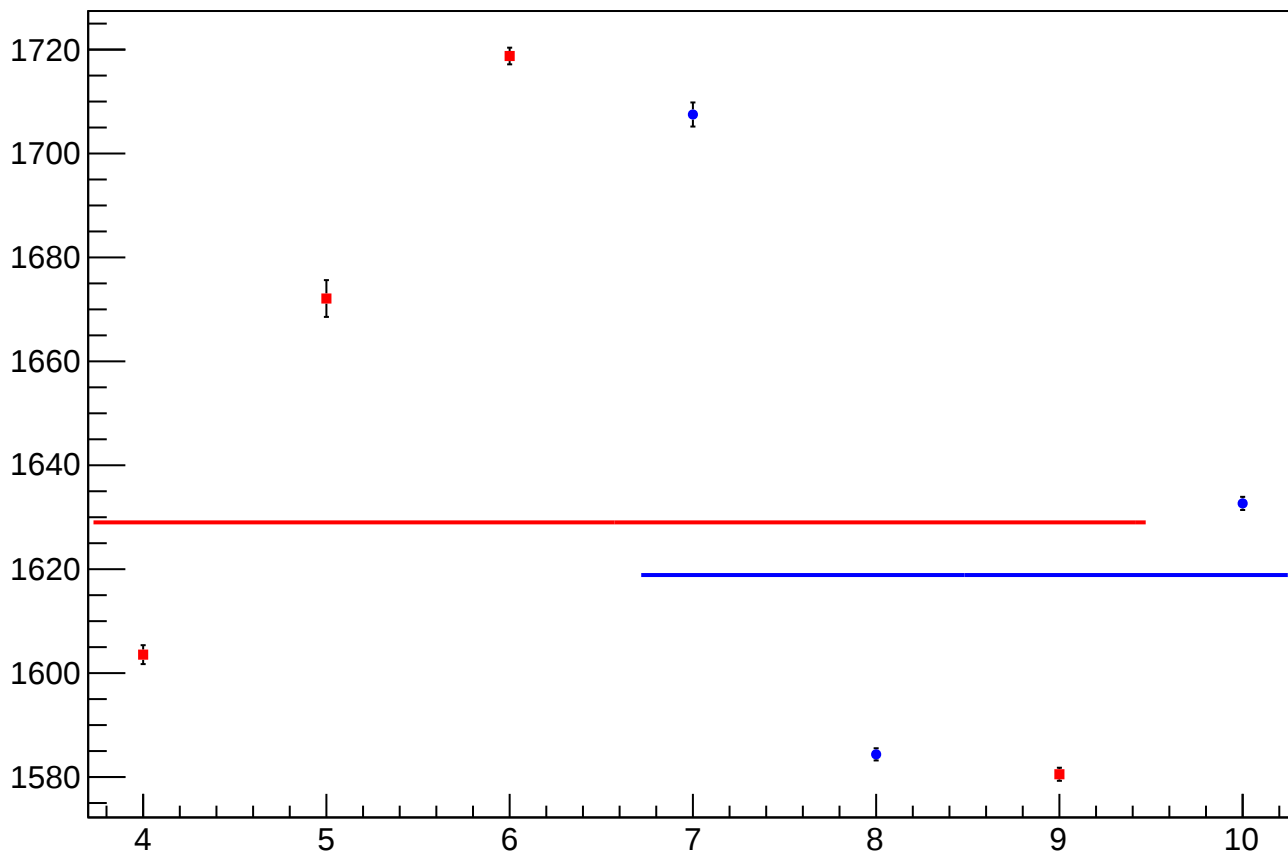
Right Out:  $-0.877 \pm 1.194$   $\chi^2/\text{NDF}: 2.5/3$

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

$0.804 \pm 1.140$   $\chi^2/\text{NDF}: 2.1/2$

$-0.877 \pm 1.194$   $\chi^2/\text{NDF}: 2.5/3$

# diff\_bpm4aX\_rms vs slug



Right In: 1618.875+/-0.806  $\chi^2/\text{NDF}$ : 2447.1/2

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

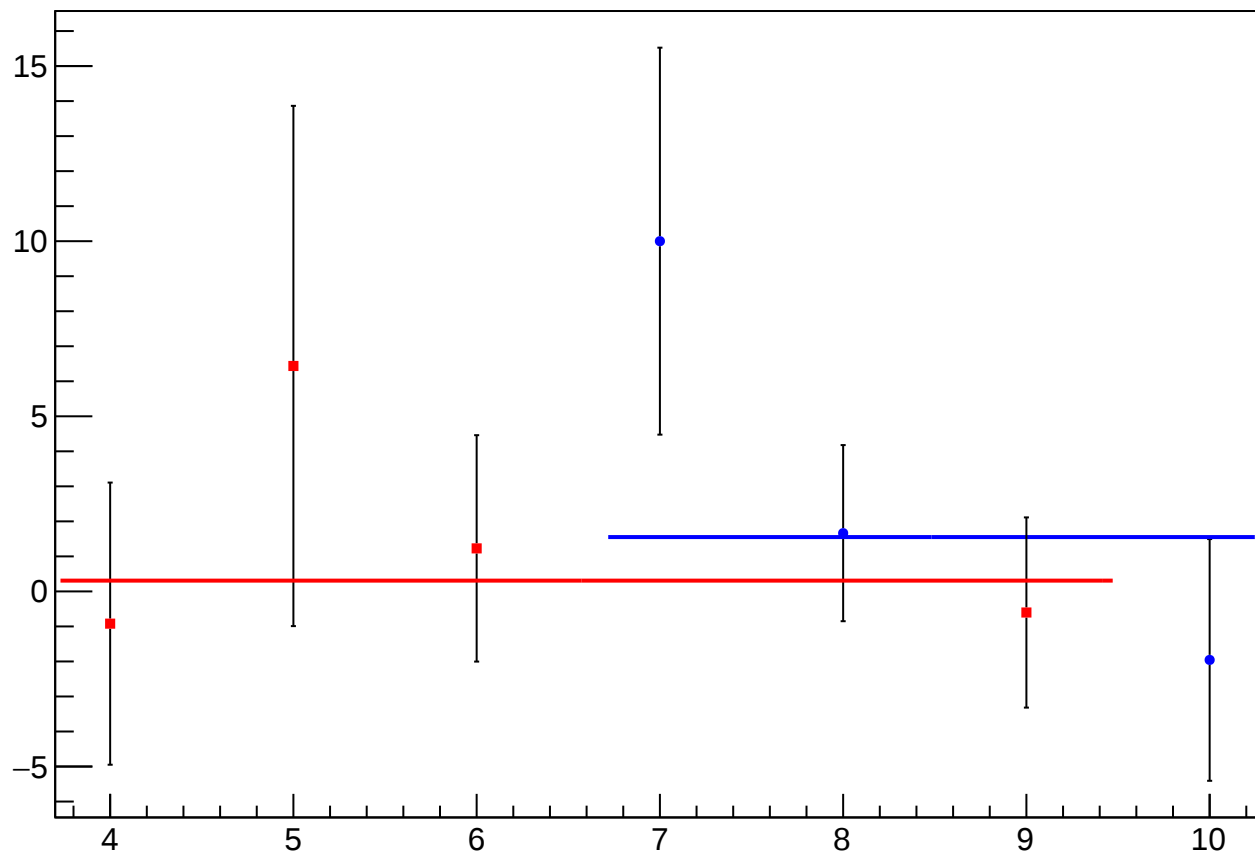
Right Out: 1629.009+/-0.844  $\chi^2/\text{NDF}$ : 4960.6/3

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

1618.875+/-0.806  $\chi^2/\text{NDF}$ : 2447.1/2

1629.009+/-0.844  $\chi^2/\text{NDF}$ : 4960.6/3

# diff\_bpm4aY\_mean vs slug



Right In: 1.552+/-1.907     $\chi^2/\text{NDF}$ : 3.4/2

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

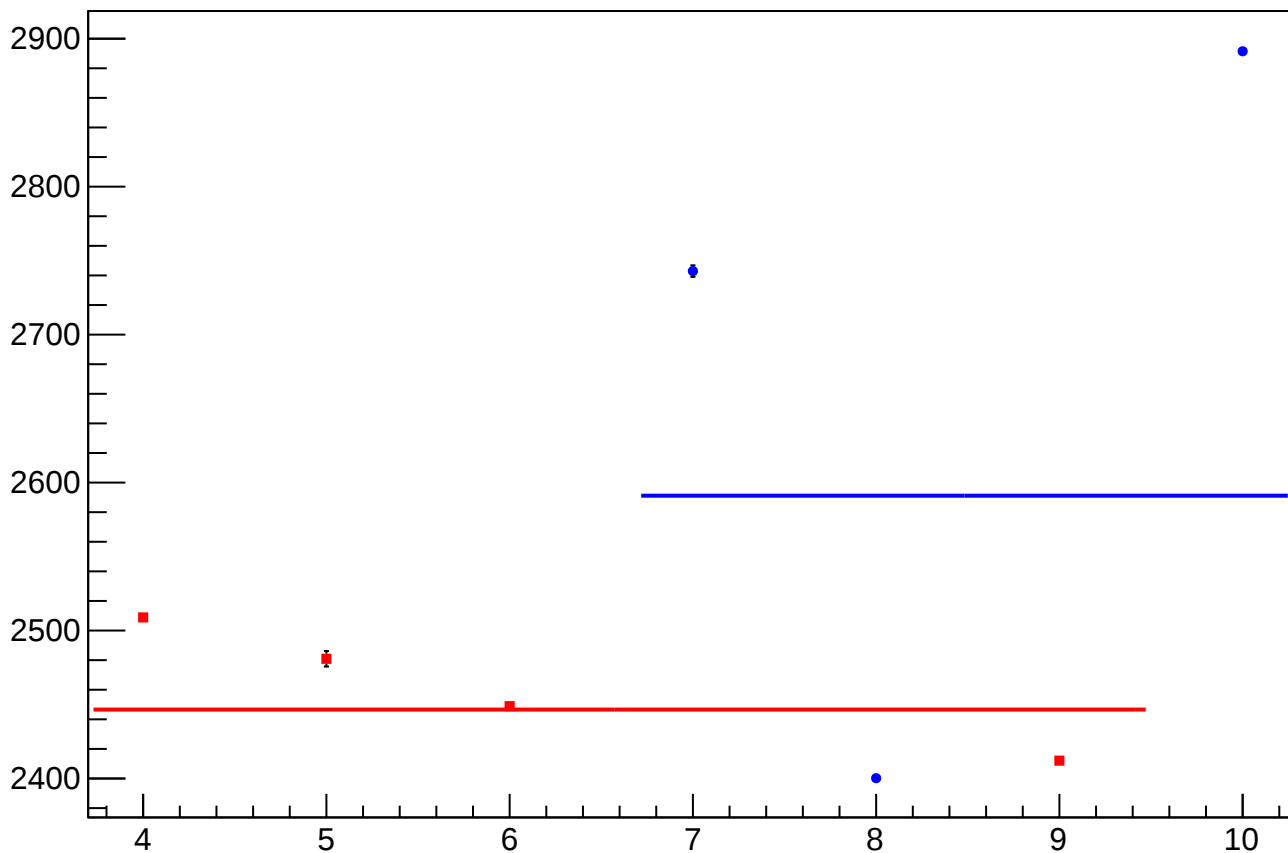
Right Out: 0.308+/-1.793     $\chi^2/\text{NDF}$ : 1.0/3

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

1.552+/-1.907     $\chi^2/\text{NDF}$ : 3.4/2

0.308+/-1.793     $\chi^2/\text{NDF}$ : 1.0/3

# diff\_bpm4aY\_rms vs slug



Right In: 2591.135+/-1.349  $\chi^2/\text{NDF}$ : 28185.7/2

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

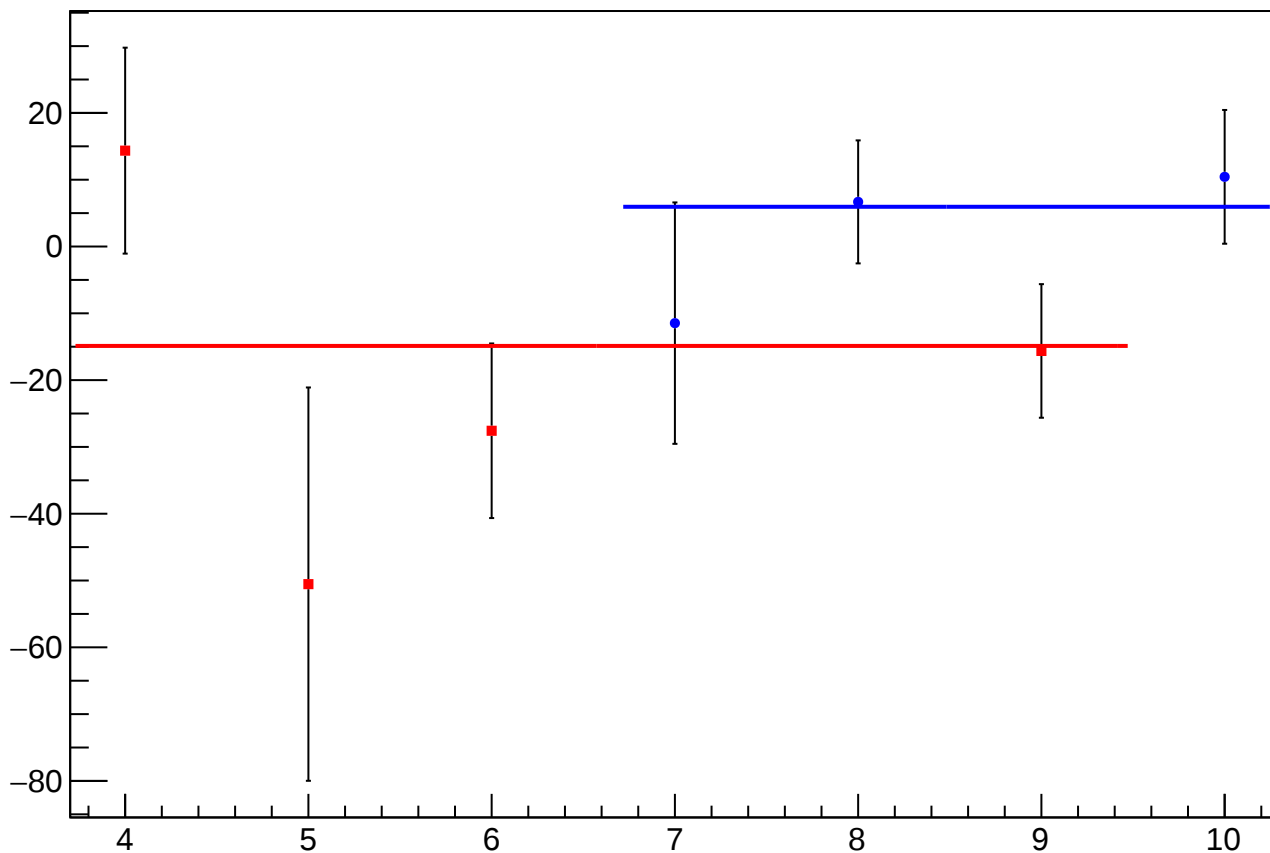
Right Out: 2446.594+/-1.268  $\chi^2/\text{NDF}$ : 844.9/3

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

2591.135+/-1.349  $\chi^2/\text{NDF}$ : 28185.7/2

2446.594+/-1.268  $\chi^2/\text{NDF}$ : 844.9/3

diff\_bpm4eX\_mean vs slug



Right In: 5.949 $\pm$ 6.345  $\chi^2$ /NDF: 1.1/2

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

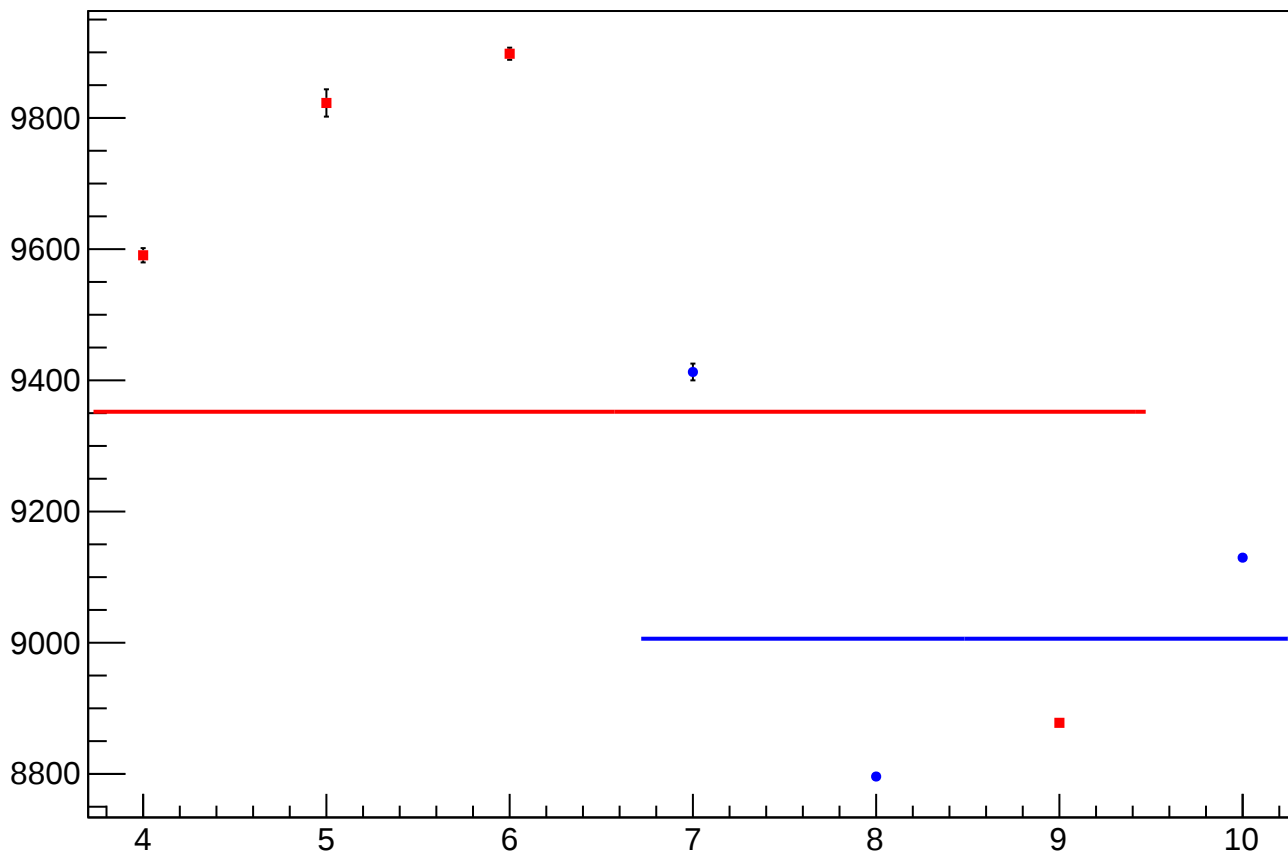
Right Out: -14.881 $\pm$ 6.865  $\chi^2$ /NDF: 6.0/3

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

5.949 $\pm$ 6.345  $\chi^2$ /NDF: 1.1/2

-14.881 $\pm$ 6.865  $\chi^2$ /NDF: 6.0/3

# diff\_bpm4eX\_rms vs slug



Right In: 9006.128+/-4.487  $\chi^2/\text{NDF}$ : 2358.8/2

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

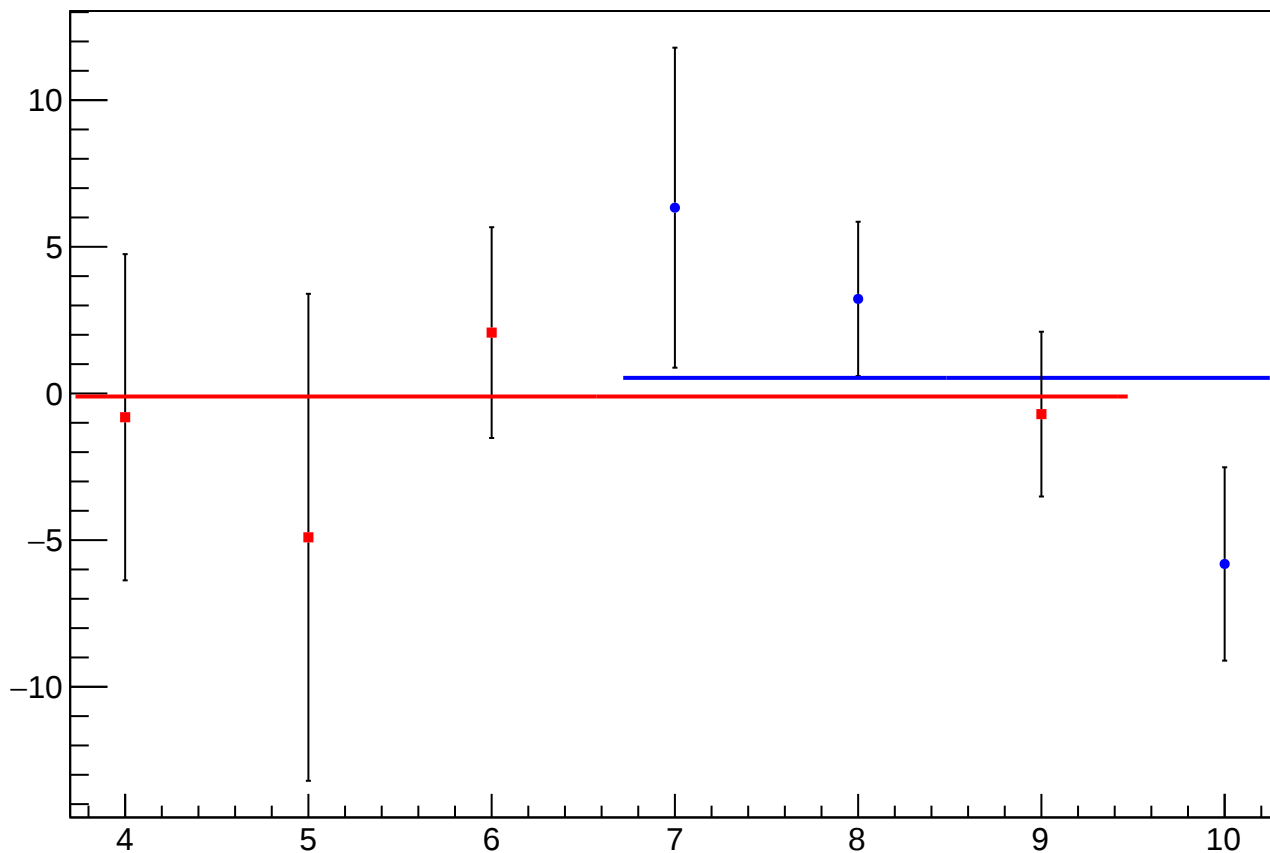
Right Out: 9352.128+/-4.854  $\chi^2/\text{NDF}$ : 8976.3/3

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

9006.128+/-4.487  $\chi^2/\text{NDF}$ : 2358.8/2

9352.128+/-4.854  $\chi^2/\text{NDF}$ : 8976.3/3

# diff\_bpm4eY\_mean vs slug



Right In: 0.532 $\pm$ 1.924  $\chi^2$ /NDF: 5.9/2

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

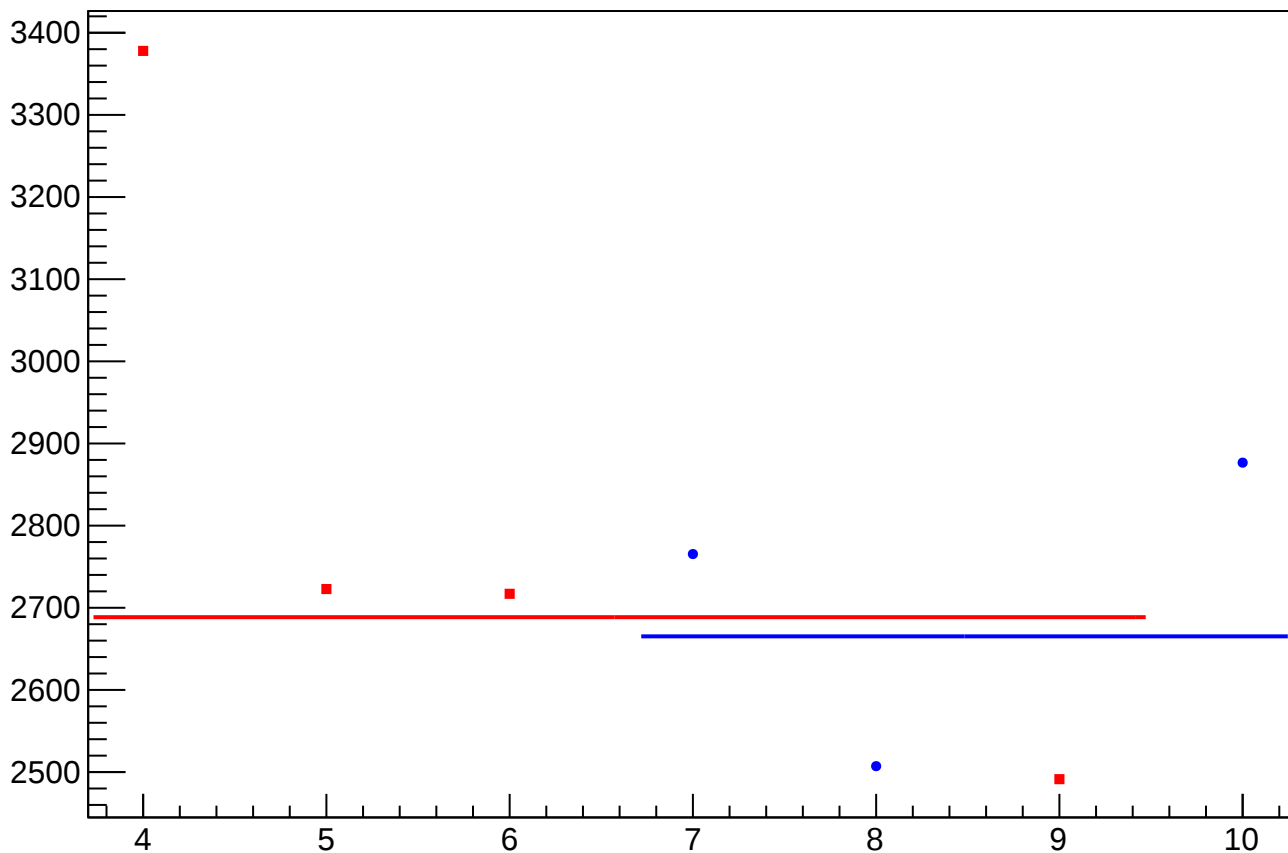
Right Out: -0.103 $\pm$ 1.996  $\chi^2$ /NDF: 0.8/3

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

0.532 $\pm$ 1.924  $\chi^2$ /NDF: 5.9/2

-0.103 $\pm$ 1.996  $\chi^2$ /NDF: 0.8/3

# diff\_bpm4eY\_rms vs slug



Right In: 2665.212+/-1.360  $\chi^2/\text{NDF}$ : 16123.8/2

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

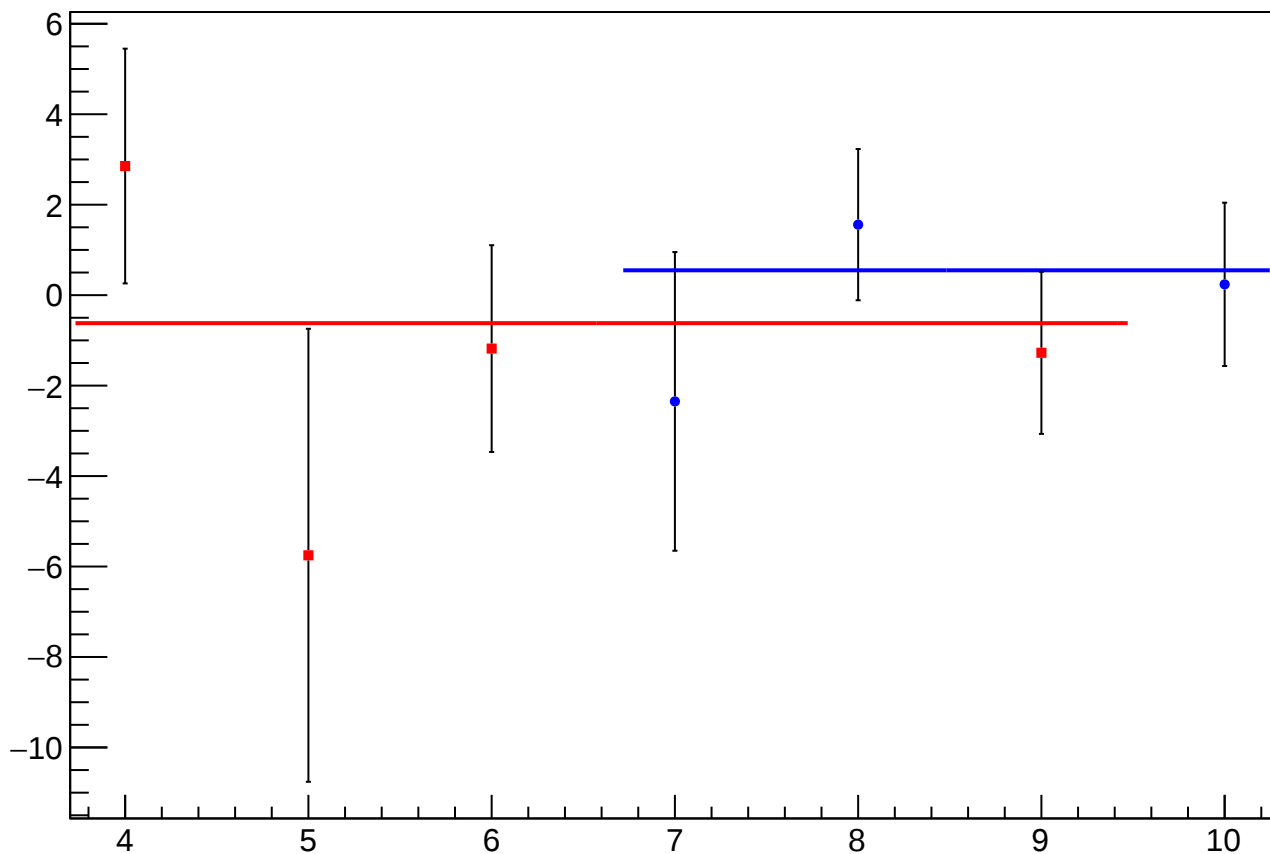
2665.212+/-1.360  $\chi^2/\text{NDF}$ : 16123.8/2

Right Out: 2688.555+/-1.411  $\chi^2/\text{NDF}$ : 40761.8/3

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

2688.555+/-1.411  $\chi^2/\text{NDF}$ : 40761.8/3

# diff\_bpm4acX\_mean vs slug



Right In: 0.549+/-1.150  $\chi^2/\text{NDF}$ : 1.2/2

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

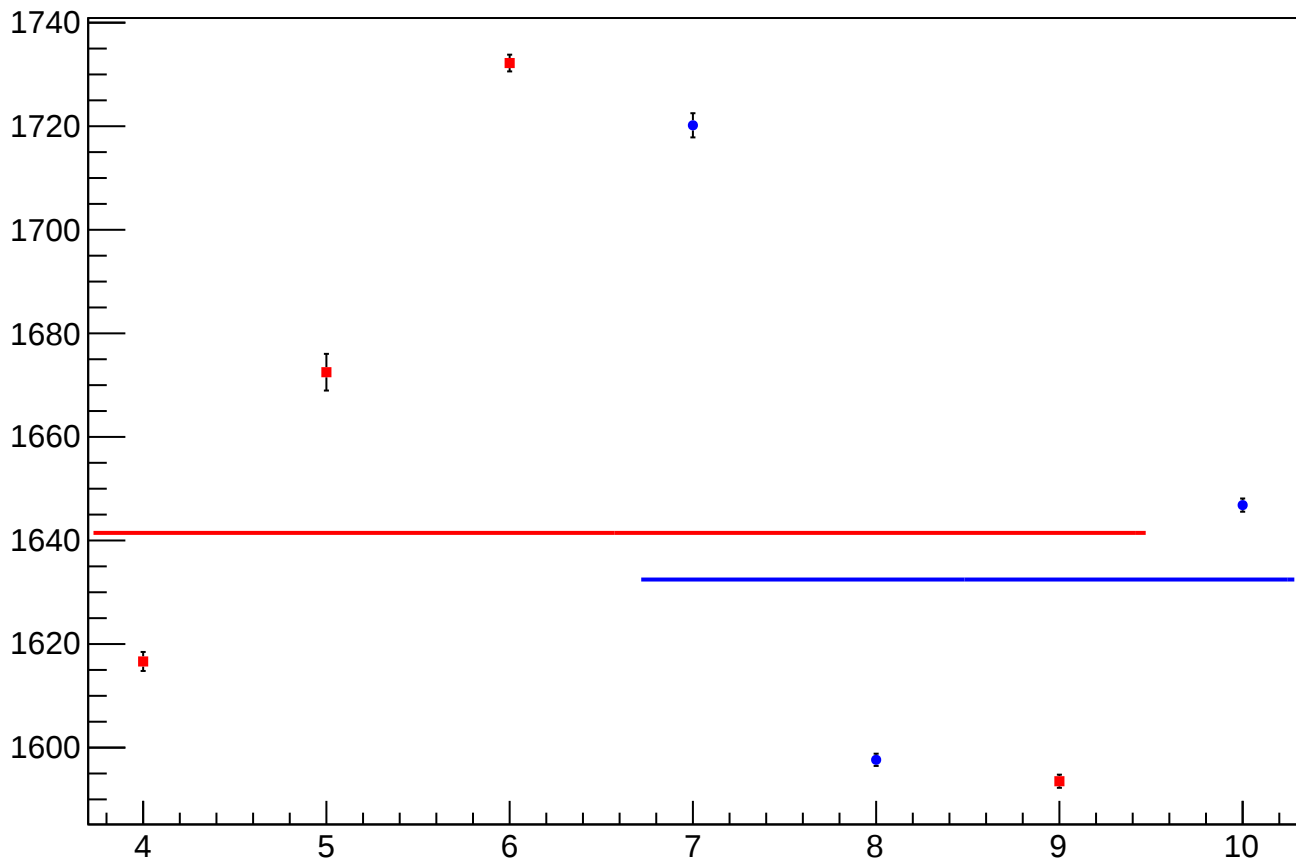
Right Out: -0.619+/-1.203  $\chi^2/\text{NDF}$ : 3.0/3

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

0.549+/-1.150  $\chi^2/\text{NDF}$ : 1.2/2

-0.619+/-1.203  $\chi^2/\text{NDF}$ : 3.0/3

# diff\_bpm4acX\_rms vs slug



Right In: 1632.459+/-0.813  $\chi^2/\text{NDF}$ : 2405.1/2

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

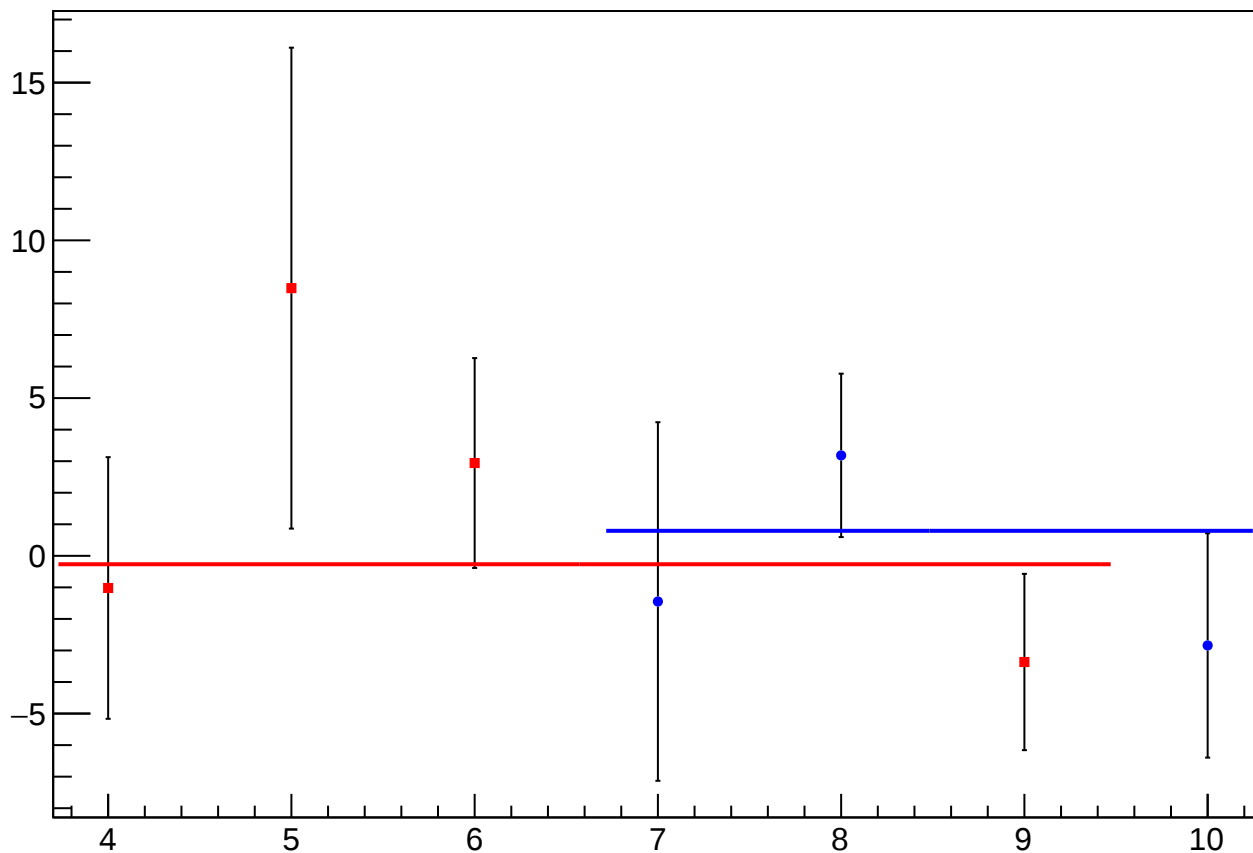
Right Out: 1641.466+/-0.851  $\chi^2/\text{NDF}$ : 4841.1/3

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

1632.459+/-0.813  $\chi^2/\text{NDF}$ : 2405.1/2

1641.466+/-0.851  $\chi^2/\text{NDF}$ : 4841.1/3

# diff\_bpm4acY\_mean vs slug



Right In: 0.793 $\pm$ 1.965  $\chi^2$ /NDF: 2.1/2

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

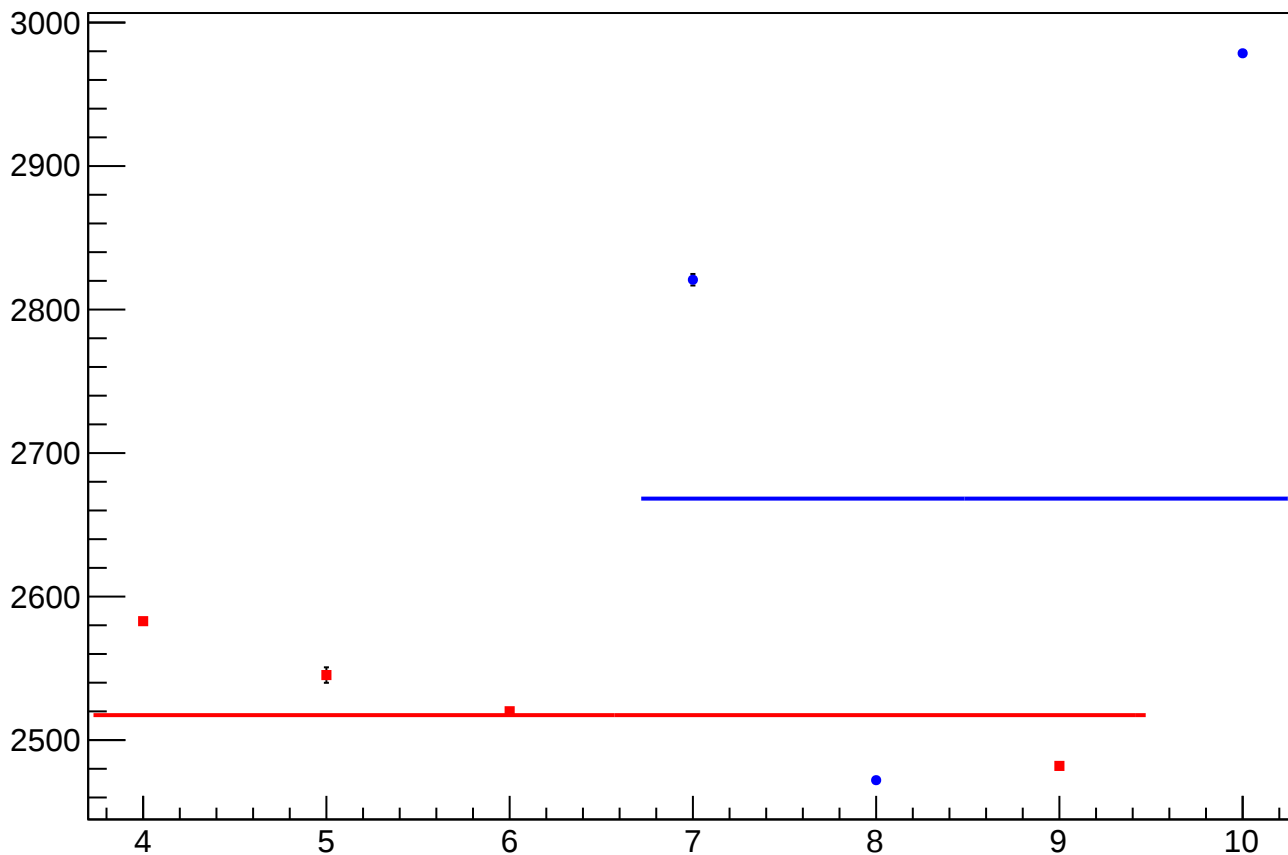
Right Out: -0.267 $\pm$ 1.845  $\chi^2$ /NDF: 3.5/3

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

0.793 $\pm$ 1.965  $\chi^2$ /NDF: 2.1/2

-0.267 $\pm$ 1.845  $\chi^2$ /NDF: 3.5/3

# diff\_bpm4acY\_rms vs slug



Right In: 2668.270+/-1.389  $\chi^2/\text{NDF}$ : 28144.4/2

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

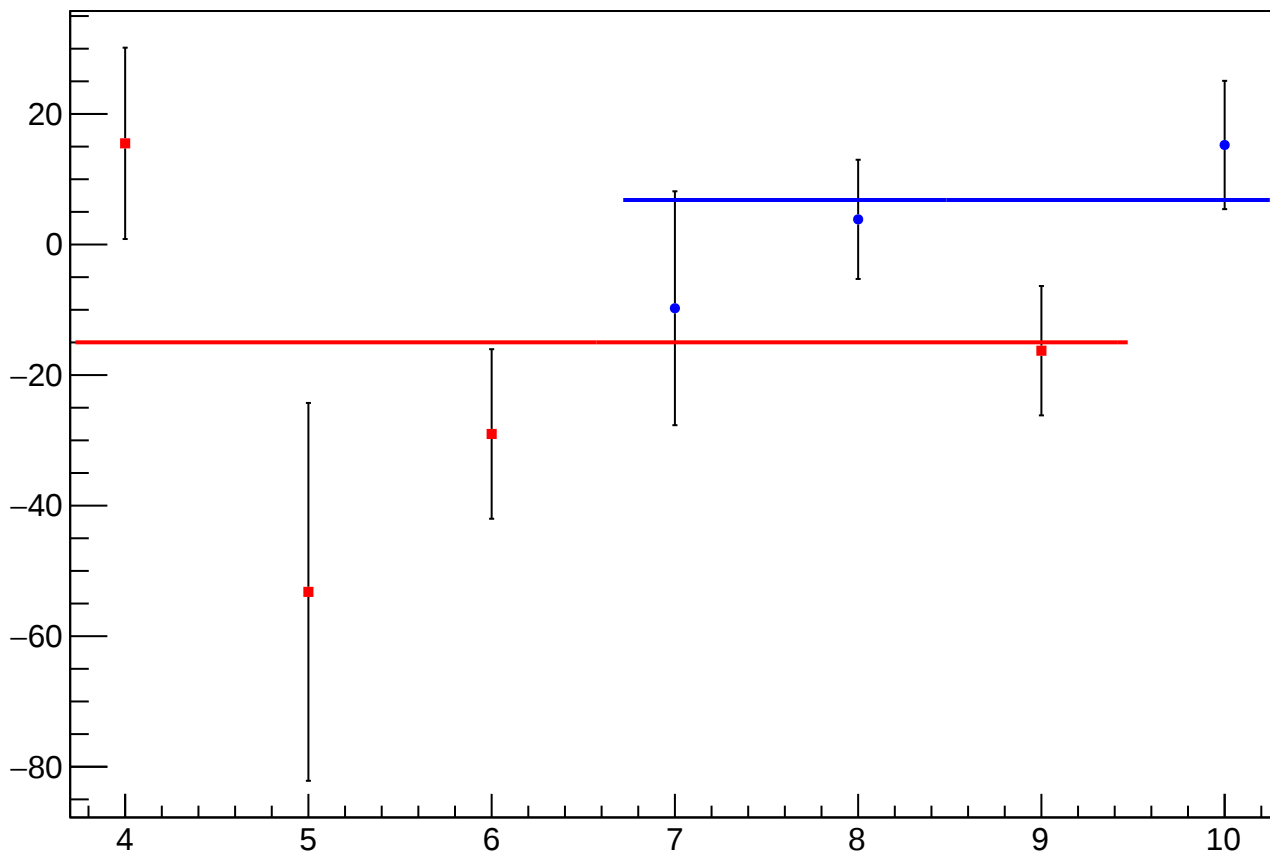
Right Out: 2517.387+/-1.305  $\chi^2/\text{NDF}$ : 847.5/3

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

2668.270+/-1.389  $\chi^2/\text{NDF}$ : 28144.4/2

2517.387+/-1.305  $\chi^2/\text{NDF}$ : 847.5/3

# diff\_bpm4ecX\_mean vs slug



Right In:  $6.822 \pm 6.266$   $\chi^2/\text{NDF}: 1.7/2$

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

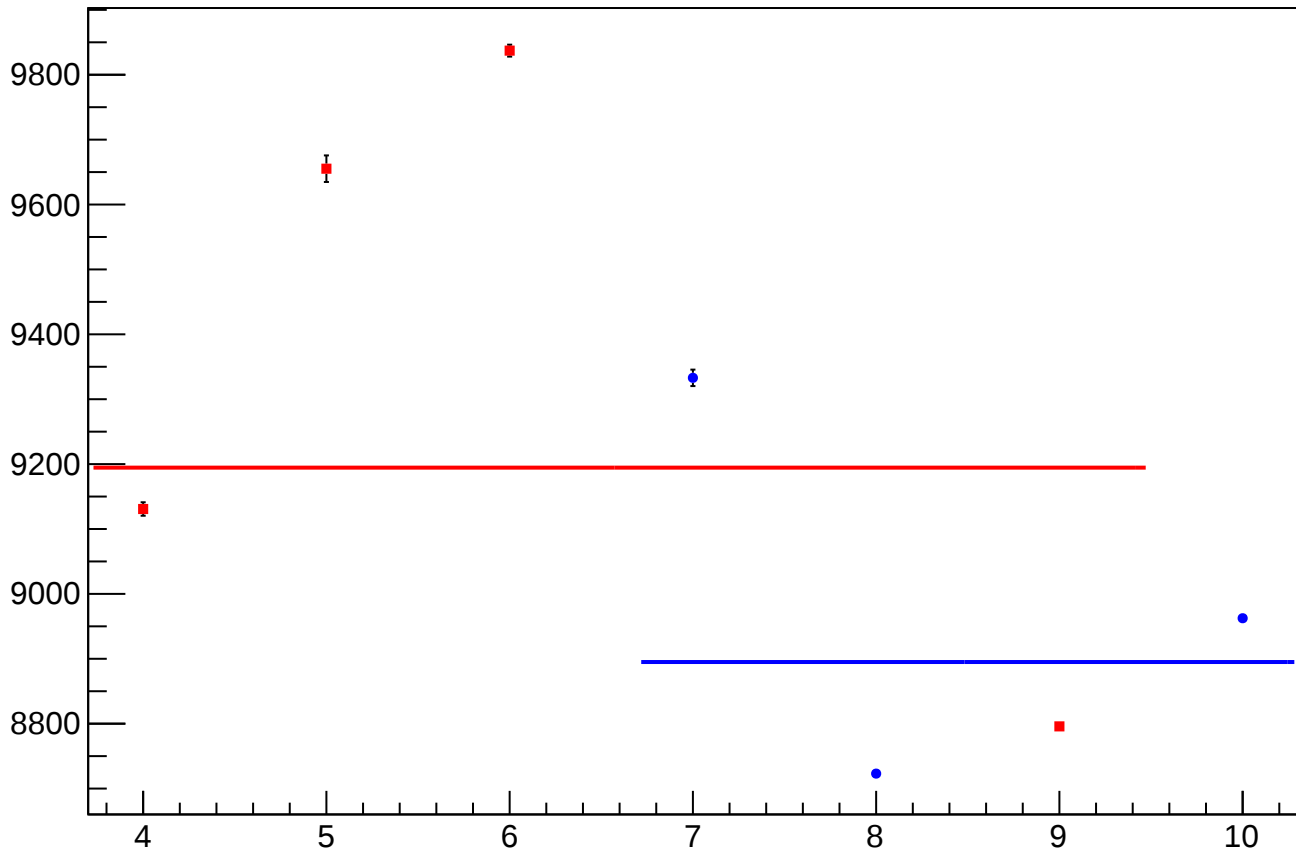
Right Out:  $-14.983 \pm 6.748$   $\chi^2/\text{NDF}: 7.3/3$

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

$6.822 \pm 6.266$   $\chi^2/\text{NDF}: 1.7/2$

$-14.983 \pm 6.748$   $\chi^2/\text{NDF}: 7.3/3$

# diff\_bpm4ecX\_rms vs slug



Right In: 8895.012 $\pm$ 4.431  $\chi^2$ /NDF: 1998.6/2

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

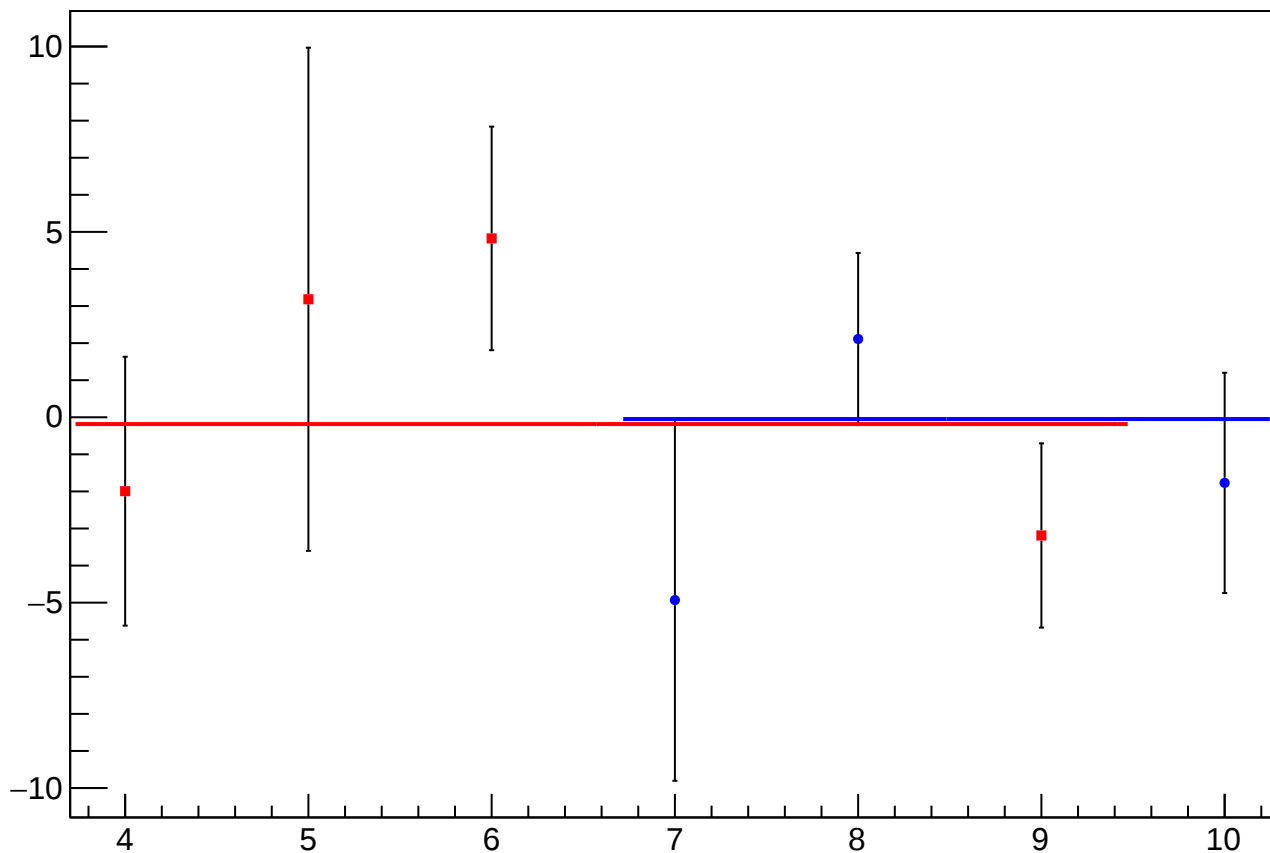
Right Out: 9194.563 $\pm$ 4.771  $\chi^2$ /NDF: 8678.9/3

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

8895.012 $\pm$ 4.431  $\chi^2$ /NDF: 1998.6/2

9194.563 $\pm$ 4.771  $\chi^2$ /NDF: 8678.9/3

# diff\_bpm4ecY\_mean vs slug



Right In: -0.048+/-1.712  $\chi^2$ /NDF: 2.2/2

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

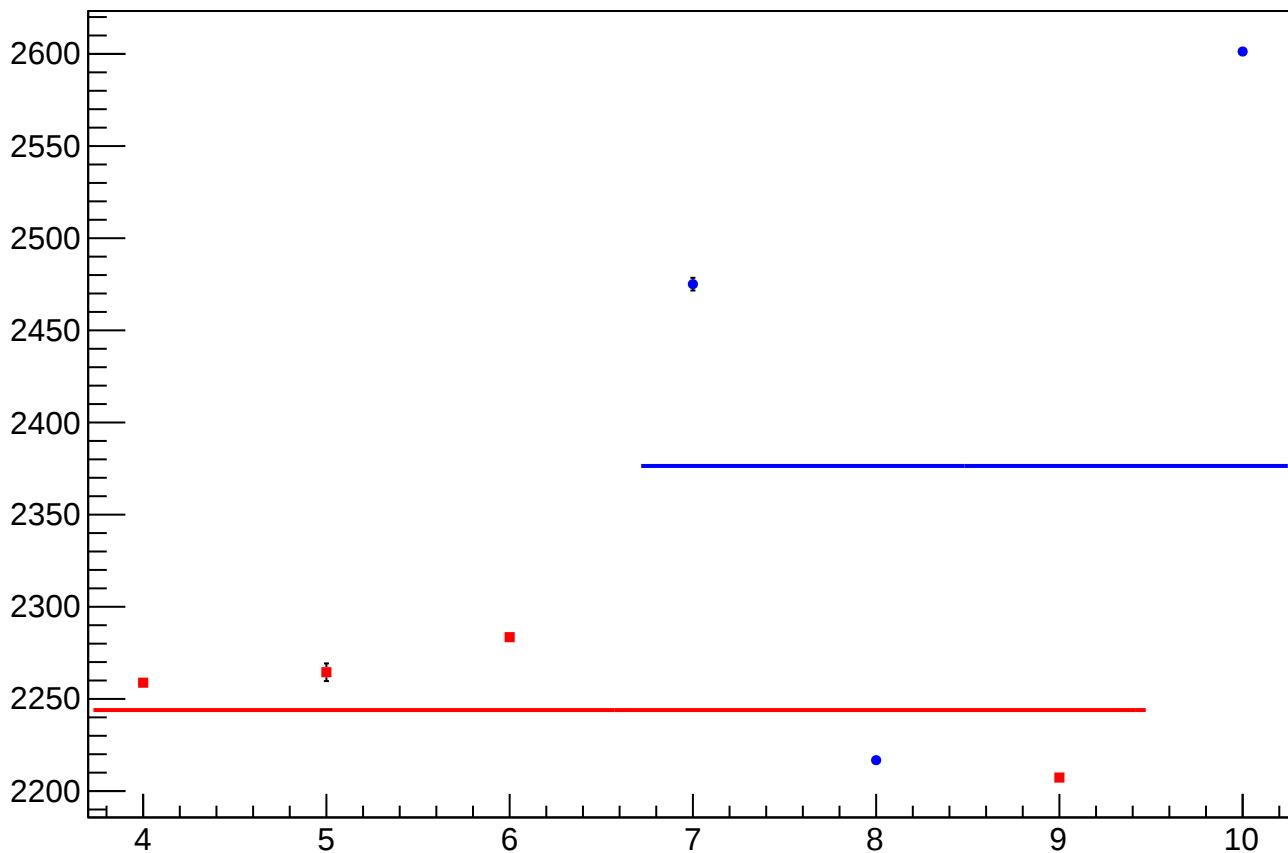
Right Out: -0.183+/-1.645  $\chi^2$ /NDF: 4.7/3

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

-0.048+/-1.712  $\chi^2$ /NDF: 2.2/2

-0.183+/-1.645  $\chi^2$ /NDF: 4.7/3

# diff\_bpm4ecY\_rms vs slug



Right In: 2376.419+/-1.211  $\chi^2$ /NDF: 21742.1/2

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

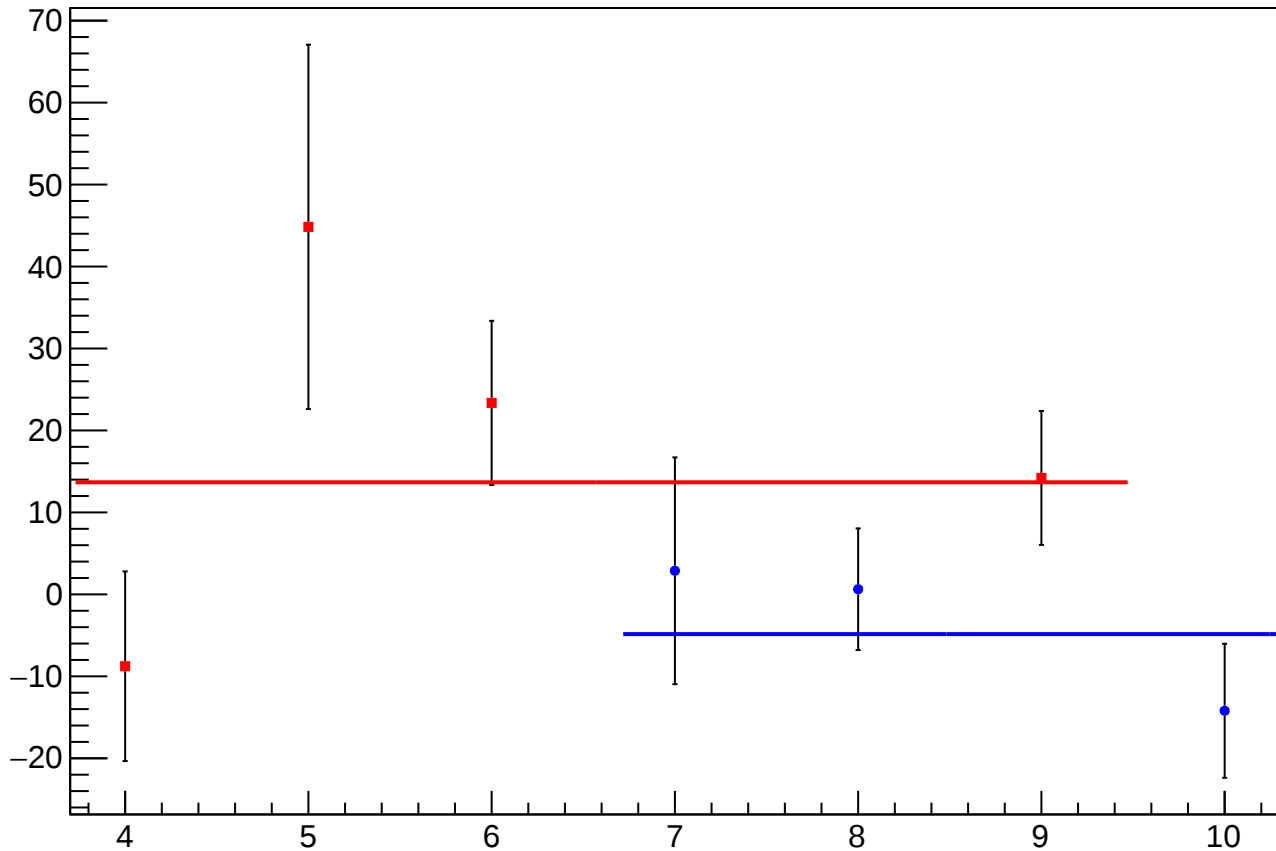
Right Out: 2243.954+/-1.163  $\chi^2$ /NDF: 830.5/3

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

2376.419+/-1.211  $\chi^2$ /NDF: 21742.1/2

2243.954+/-1.163  $\chi^2$ /NDF: 830.5/3

diff\_bpm1X\_mean vs slug



Right In: -4.848+/-5.108  $\chi^2/\text{NDF}$ : 2.2/2

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

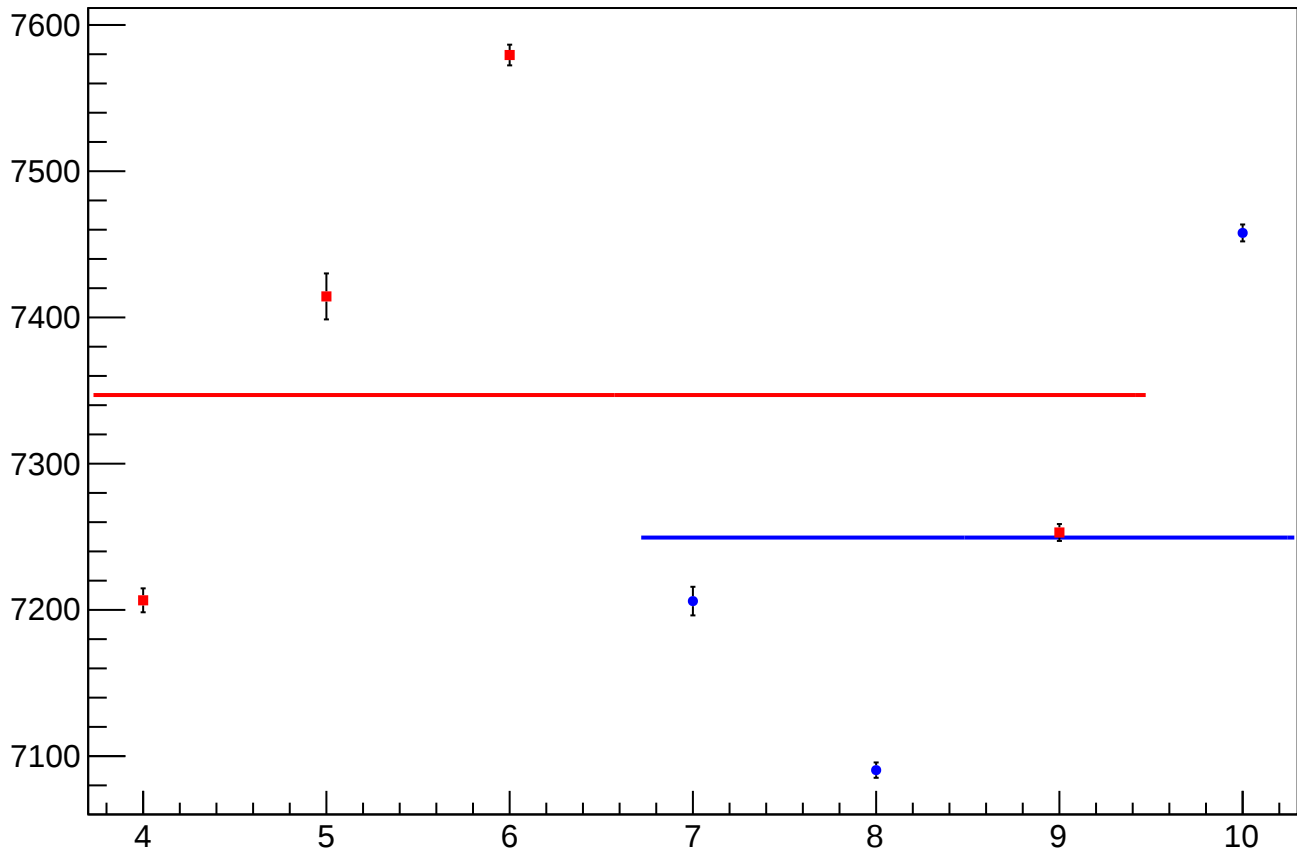
Right Out: 13.675+/-5.387  $\chi^2/\text{NDF}$ : 6.7/3

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

-4.848+/-5.108  $\chi^2/\text{NDF}$ : 2.2/2

13.675+/-5.387  $\chi^2/\text{NDF}$ : 6.7/3

# diff\_bpm1X\_rms vs slug



Right In: 7249.472+/-3.612  $\chi^2/\text{NDF}$ : 2236.0/2

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

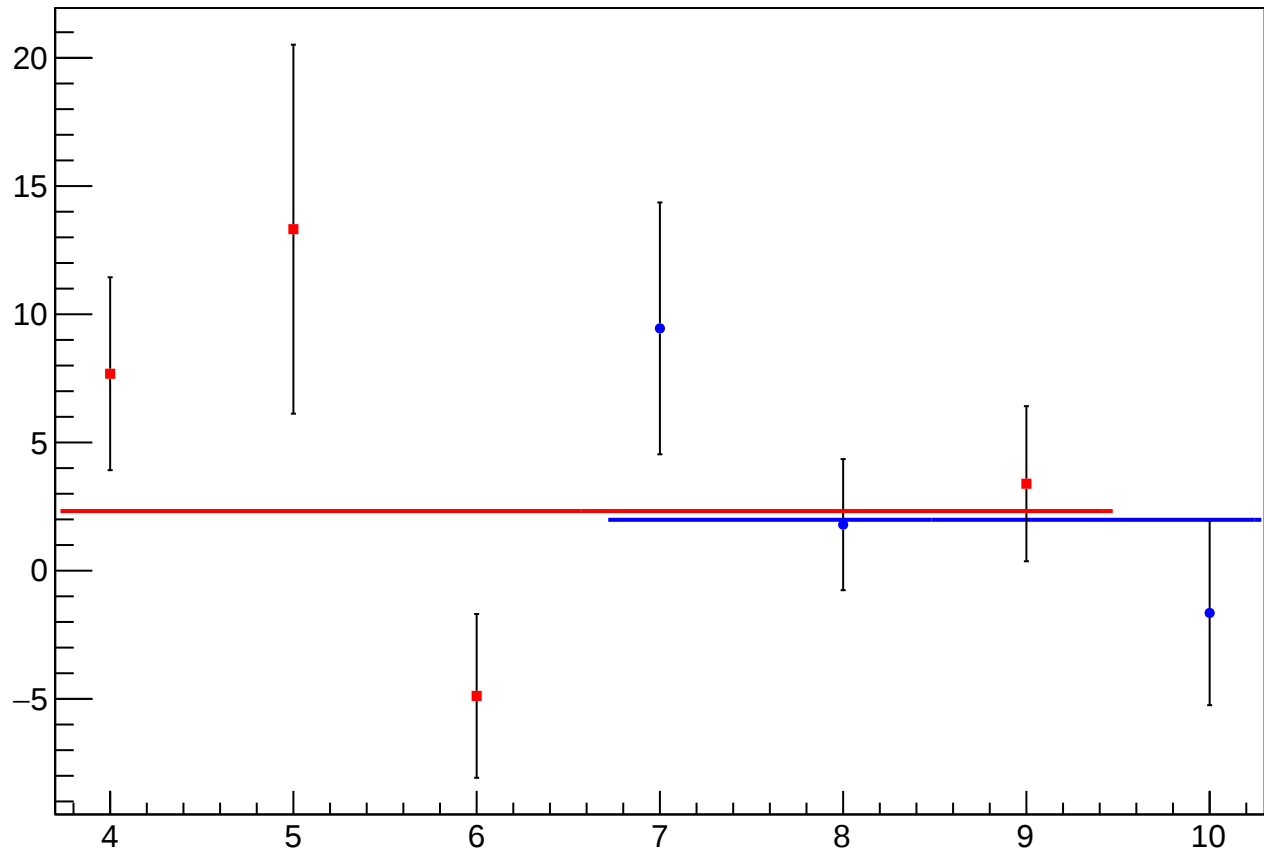
Right Out: 7346.942+/-3.809  $\chi^2/\text{NDF}$ : 1656.9/3

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

7249.472+/-3.612  $\chi^2/\text{NDF}$ : 2236.0/2

7346.942+/-3.809  $\chi^2/\text{NDF}$ : 1656.9/3

# diff\_bpm1Y\_mean vs slug



Right In: 1.984+/-1.919     $\chi^2/\text{NDF}$ : 3.3/2

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

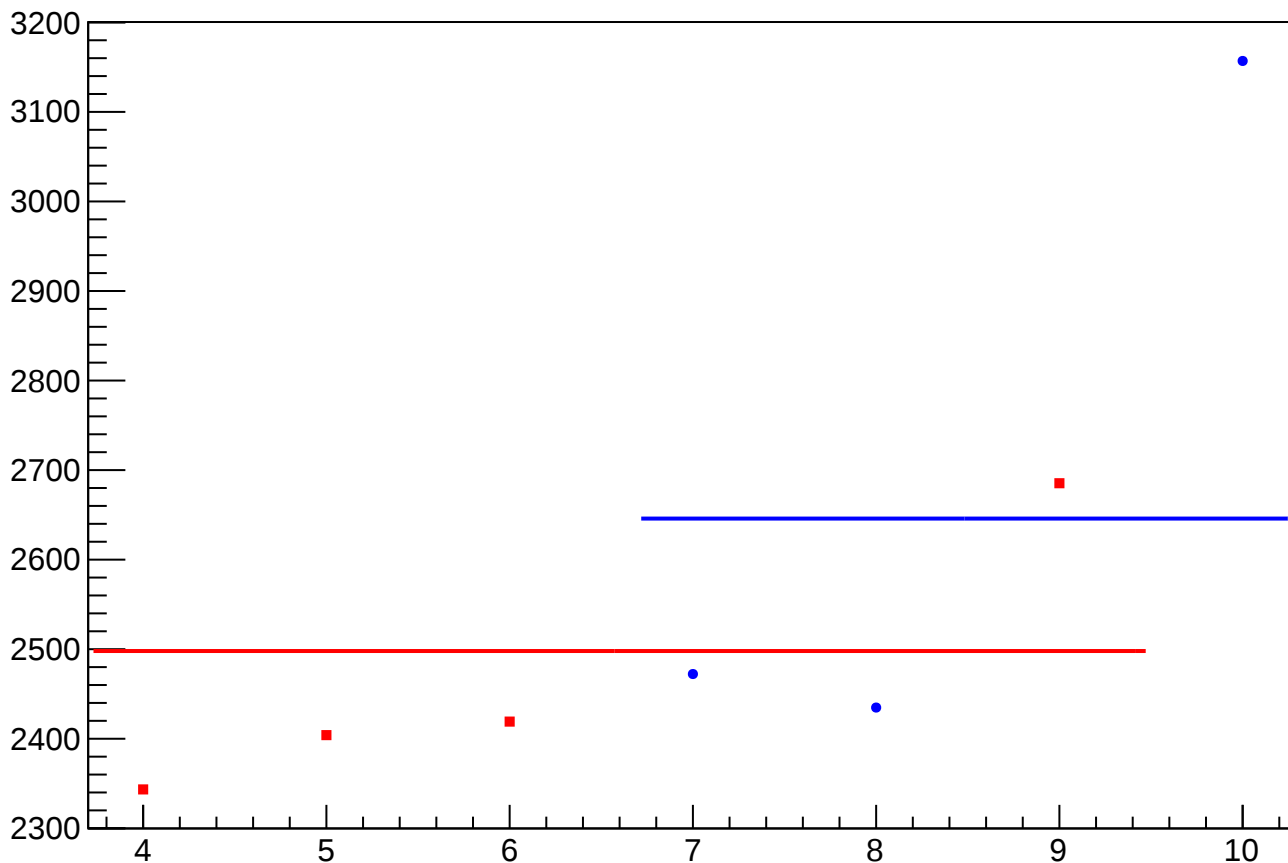
Right Out: 2.326+/-1.834     $\chi^2/\text{NDF}$ : 9.6/3

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

1.984+/-1.919     $\chi^2/\text{NDF}$ : 3.3/2

2.326+/-1.834     $\chi^2/\text{NDF}$ : 9.6/3

# diff\_bpm1Y\_rms vs slug



Right In: 2645.871+/-1.357  $\chi^2/\text{NDF}$ : 56467.1/2

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

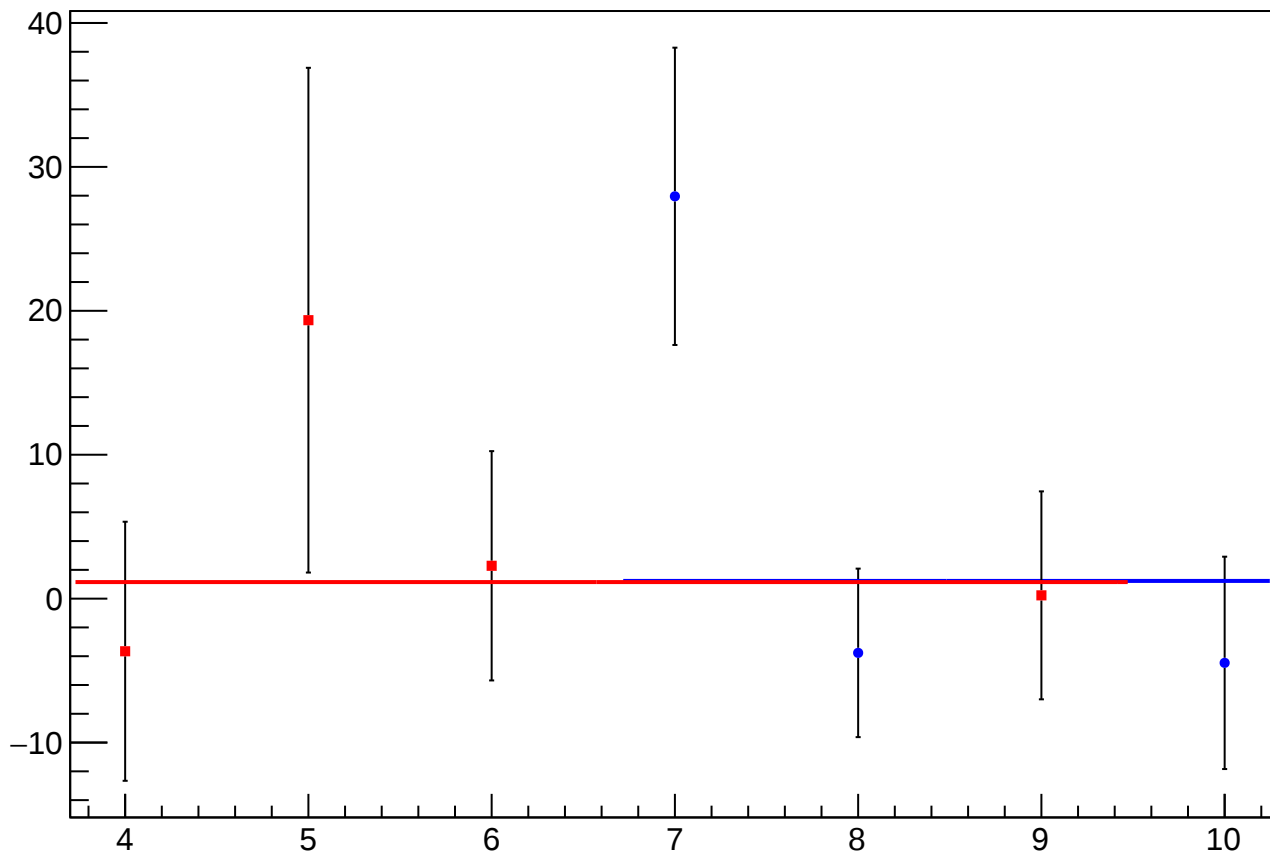
Right Out: 2497.967+/-1.297  $\chi^2/\text{NDF}$ : 12604.0/3

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

2645.871+/-1.357  $\chi^2/\text{NDF}$ : 56467.1/2

2497.967+/-1.297  $\chi^2/\text{NDF}$ : 12604.0/3

# diff\_bpm11X\_mean vs slug



Right In: 1.231+/-4.191  $\chi^2/\text{NDF}$ : 8.0/2

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

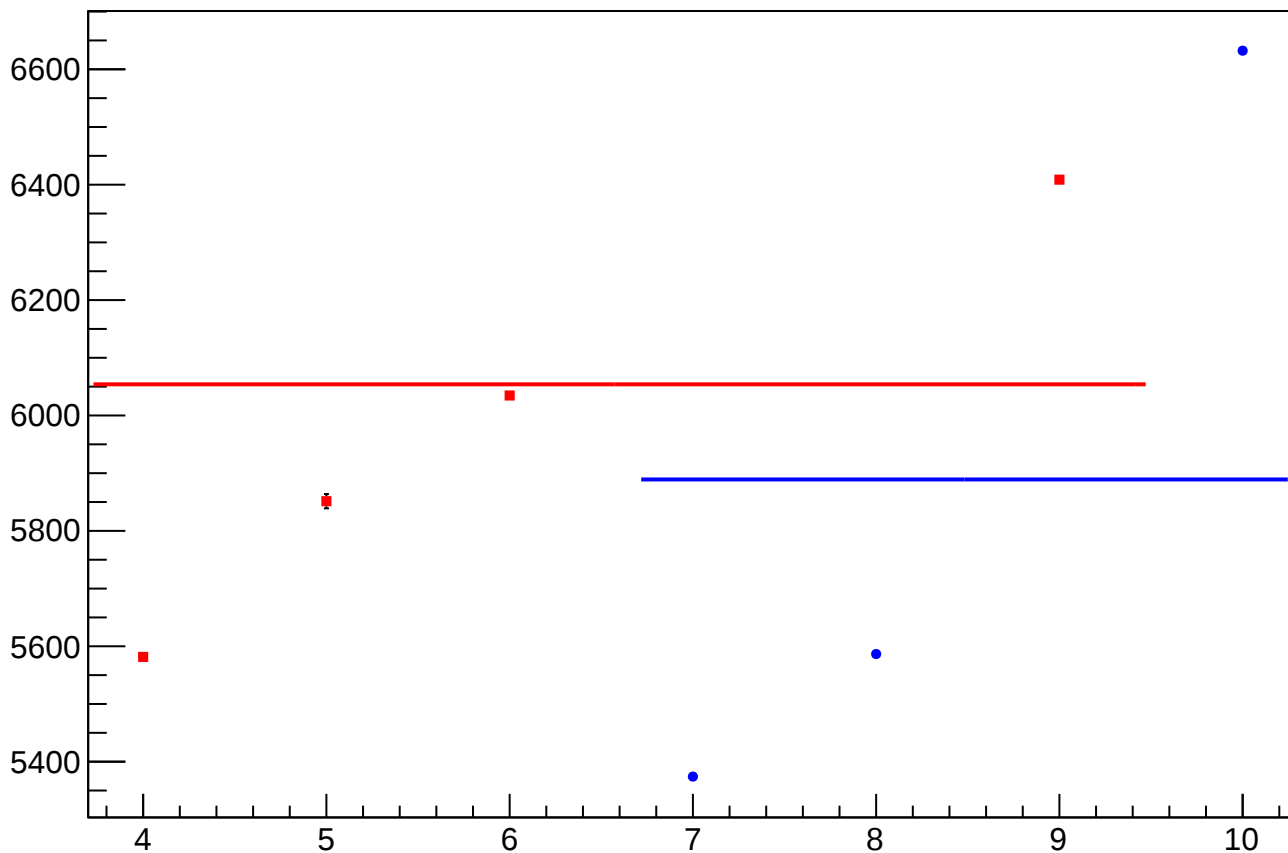
Right Out: 1.151+/-4.449  $\chi^2/\text{NDF}$ : 1.4/3

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

1.231+/-4.191  $\chi^2/\text{NDF}$ : 8.0/2

1.151+/-4.449  $\chi^2/\text{NDF}$ : 1.4/3

# diff\_bpm11X\_rms vs slug



Right In: 5889.115+/-2.964  $\chi^2/\text{NDF}$ : 30605.1/2

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

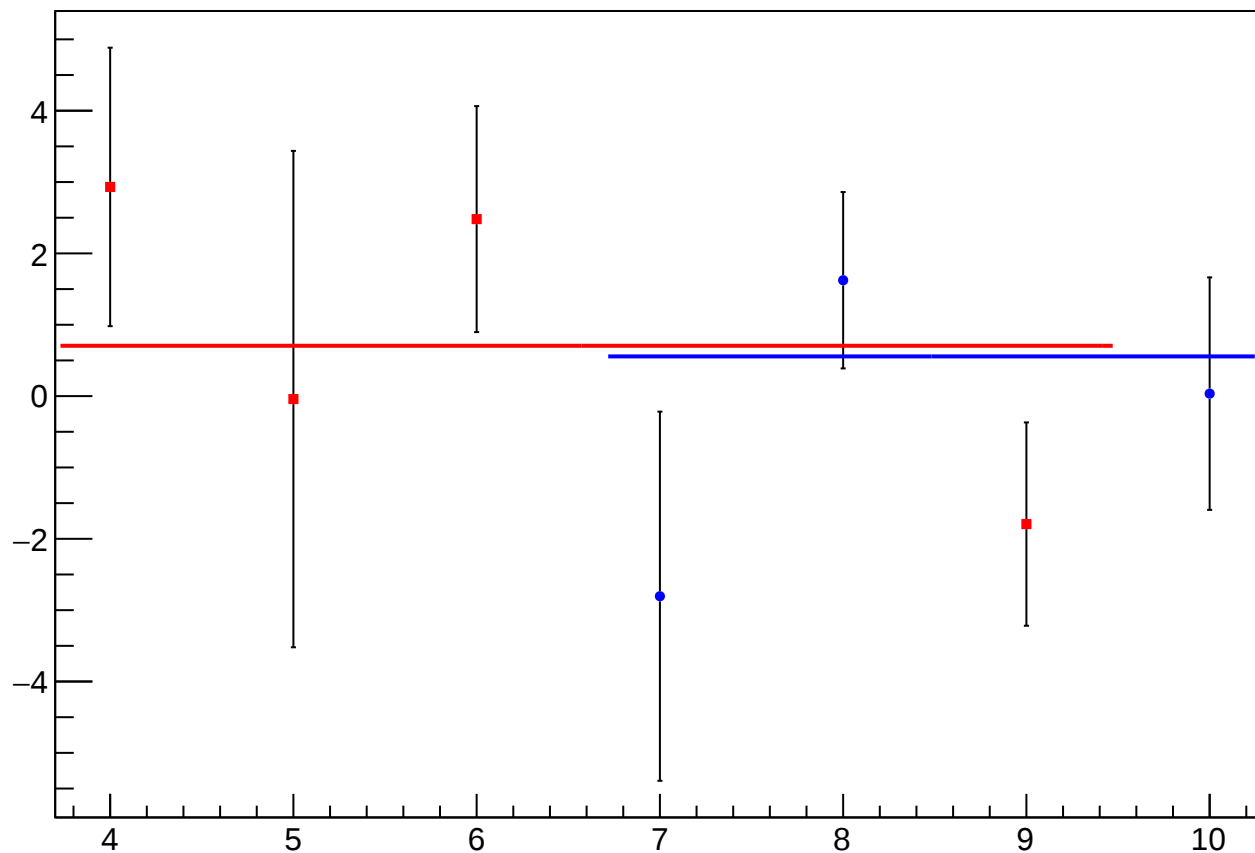
Right Out: 6054.012+/-3.146  $\chi^2/\text{NDF}$ : 10609.6/3

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

5889.115+/-2.964  $\chi^2/\text{NDF}$ : 30605.1/2

6054.012+/-3.146  $\chi^2/\text{NDF}$ : 10609.6/3

# diff\_bpm11Y\_mean vs slug



Right In: 0.556 $\pm$ 0.920  $\chi^2$ /NDF: 2.5/2

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

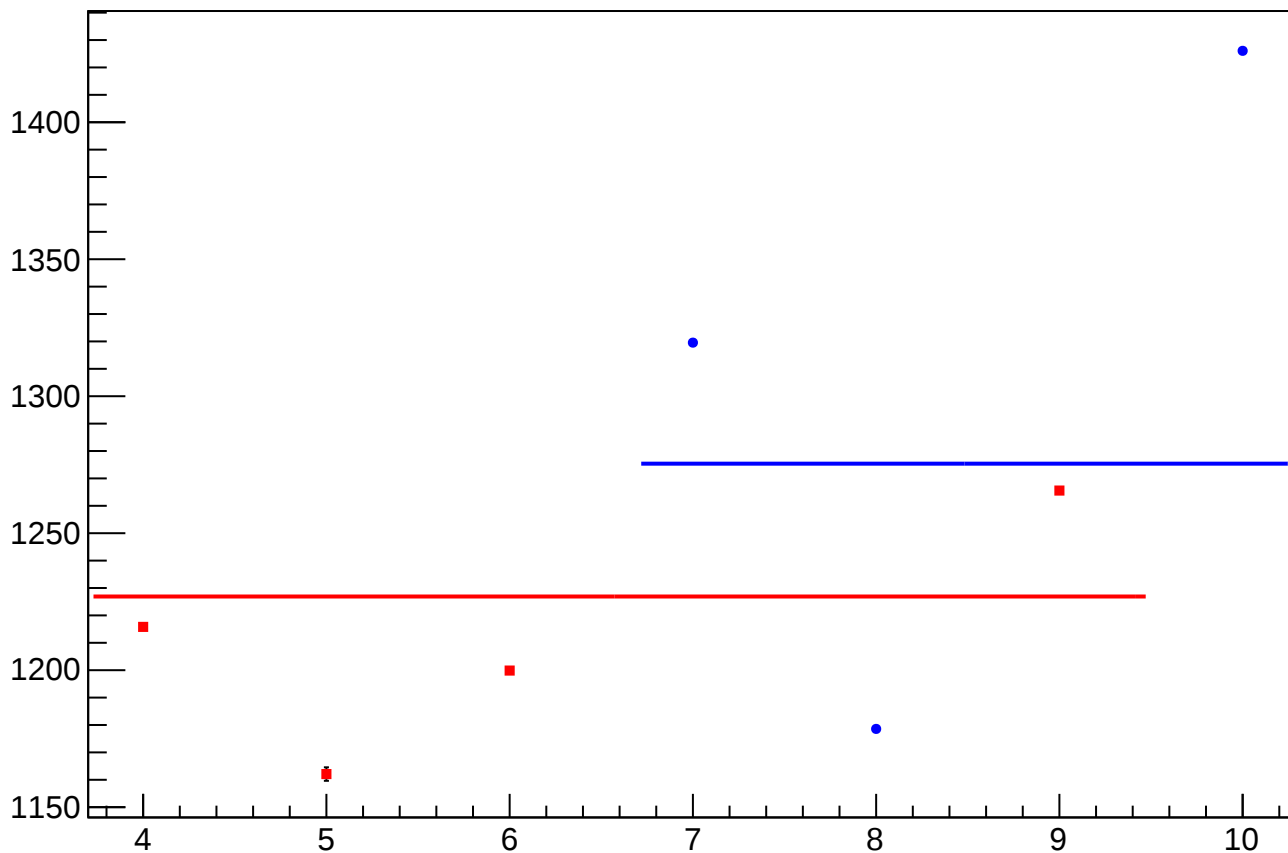
Right Out: 0.705 $\pm$ 0.899  $\chi^2$ /NDF: 5.7/3

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

0.556 $\pm$ 0.920  $\chi^2$ /NDF: 2.5/2

0.705 $\pm$ 0.899  $\chi^2$ /NDF: 5.7/3

# diff\_bpm11Y\_rms vs slug



Right In: 1275.380+/-0.651  $\chi^2/\text{NDF}$ : 29954.1/2

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

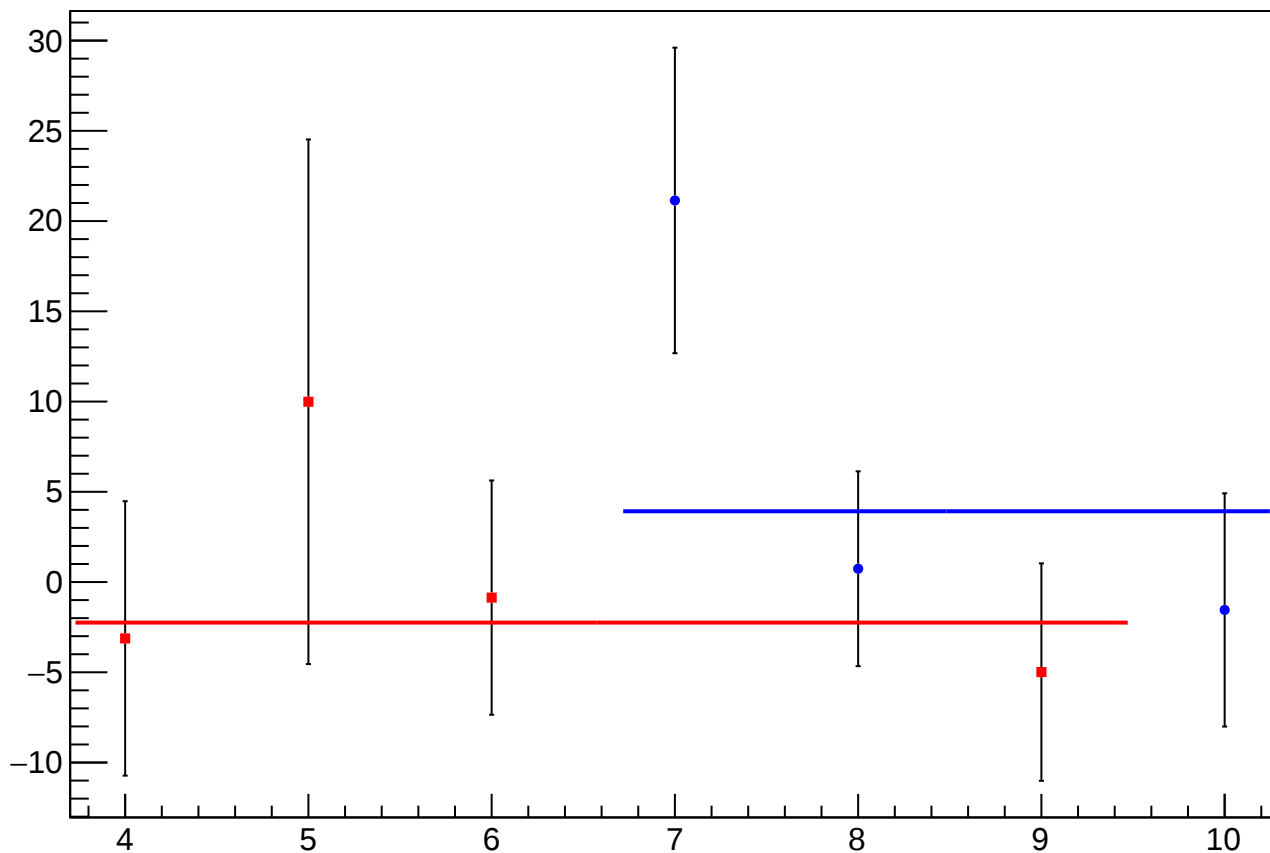
Right Out: 1226.896+/-0.636  $\chi^2/\text{NDF}$ : 2814.5/3

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

1275.380+/-0.651  $\chi^2/\text{NDF}$ : 29954.1/2

1226.896+/-0.636  $\chi^2/\text{NDF}$ : 2814.5/3

# diff\_bpm12X\_mean vs slug



Right In:  $3.922 \pm 3.721$   $\chi^2/\text{NDF}: 5.2/2$

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

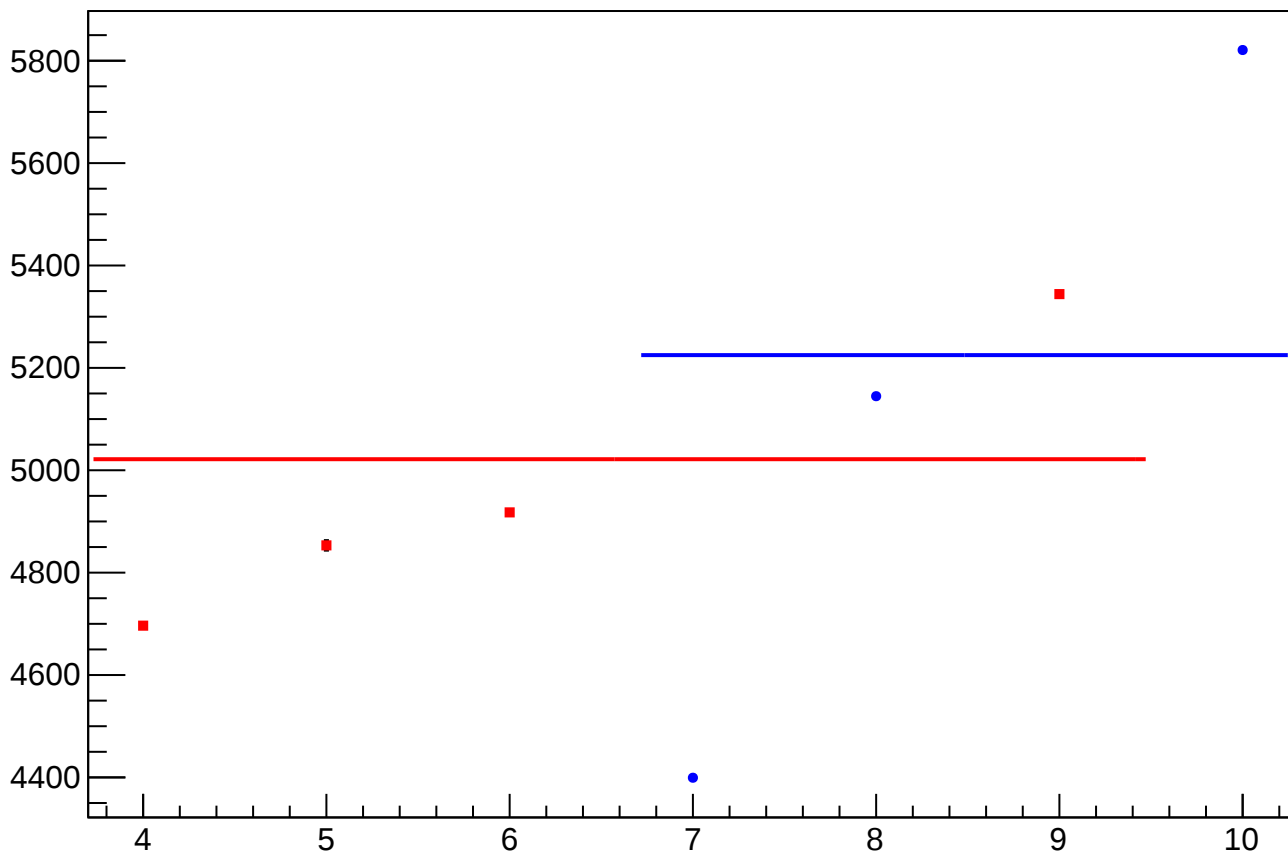
Right Out:  $-2.246 \pm 3.693$   $\chi^2/\text{NDF}: 1.0/3$

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

$3.922 \pm 3.721$   $\chi^2/\text{NDF}: 5.2/2$

$-2.246 \pm 3.693$   $\chi^2/\text{NDF}: 1.0/3$

# diff\_bpm12X\_rms vs slug



Right In: 5224.946 $\pm$ 2.631  $\chi^2$ /NDF: 36483.4/2

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

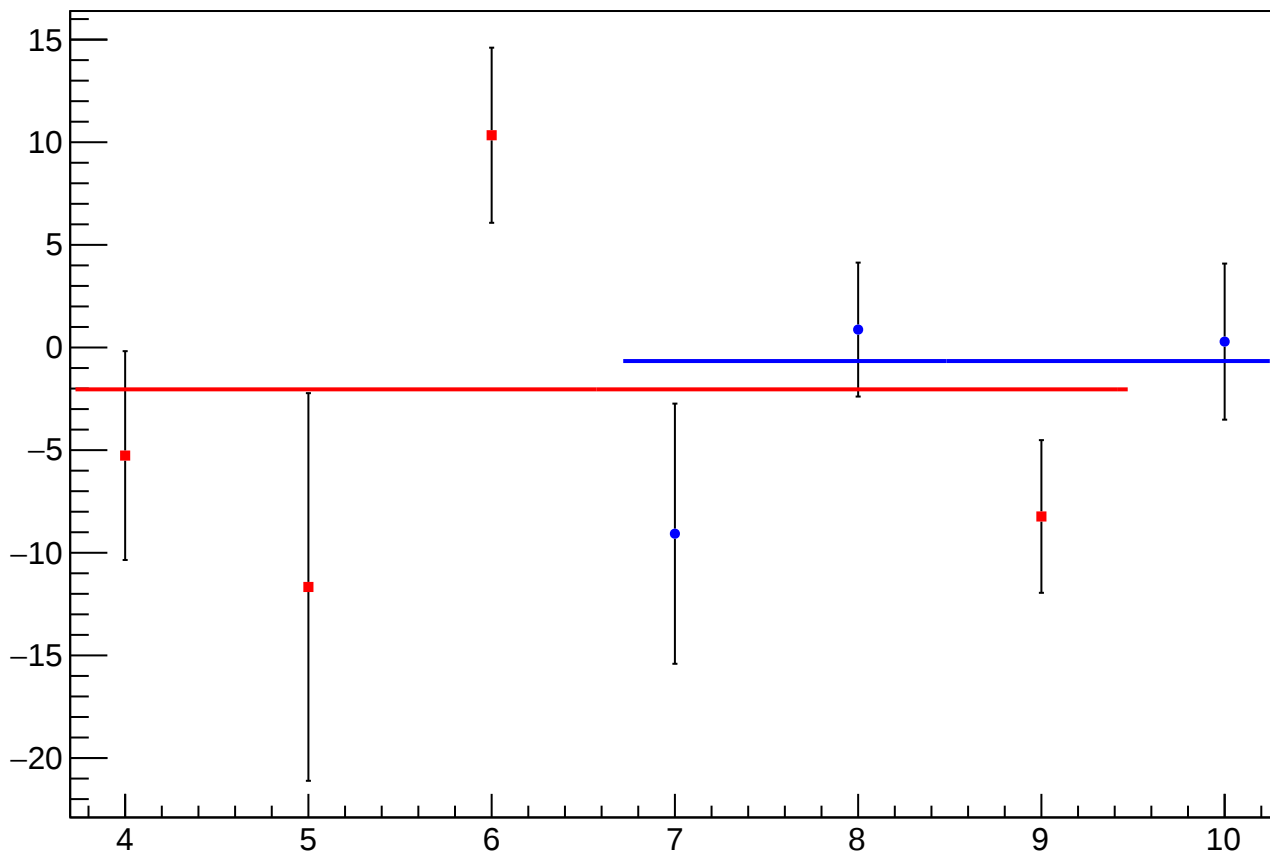
Right Out: 5021.599 $\pm$ 2.611  $\chi^2$ /NDF: 10174.2/3

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

5224.946 $\pm$ 2.631  $\chi^2$ /NDF: 36483.4/2

5021.599 $\pm$ 2.611  $\chi^2$ /NDF: 10174.2/3

# diff\_bpm12Y\_mean vs slug



Right In:  $-0.660 \pm 2.306$   $\chi^2/\text{NDF}$ : 2.0/2

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

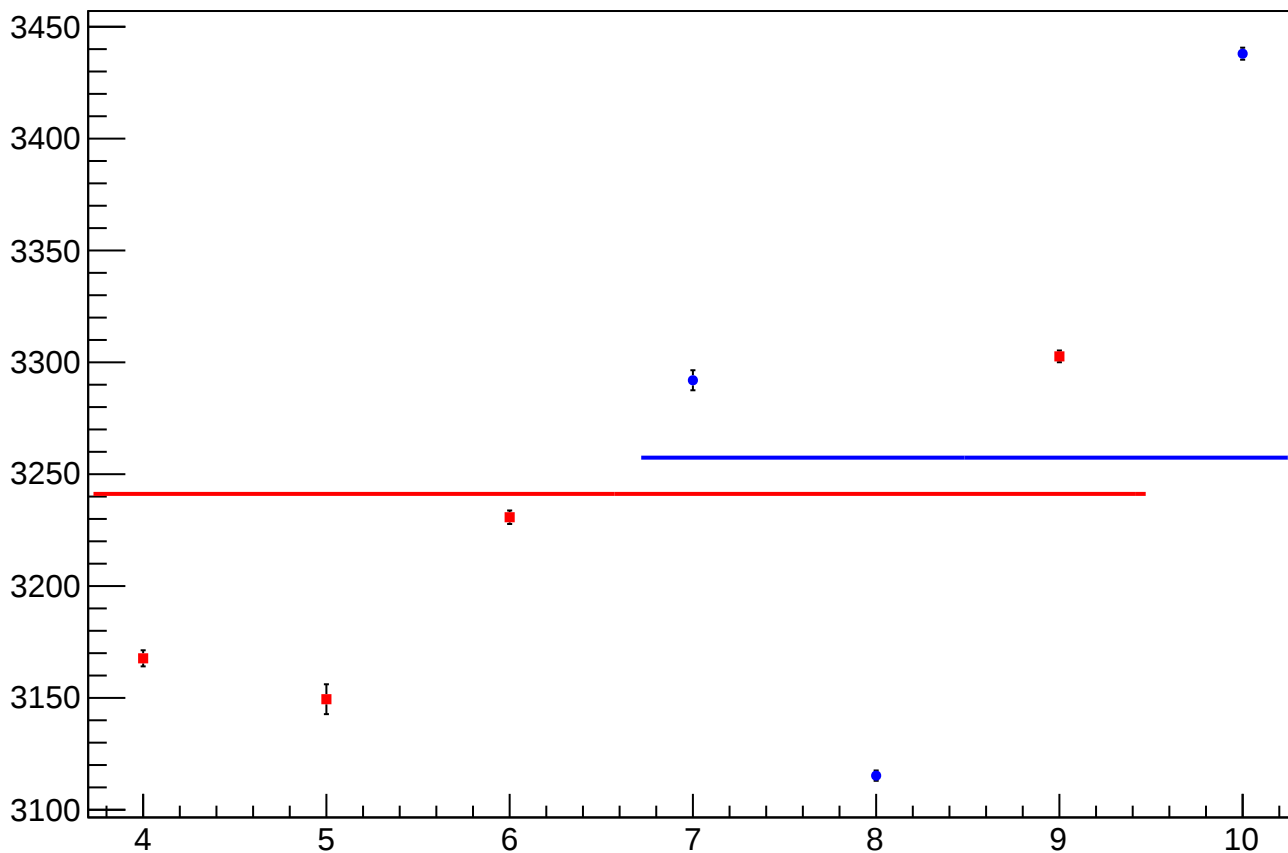
Right Out:  $-2.039 \pm 2.376$   $\chi^2/\text{NDF}$ : 12.6/3

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

$-0.660 \pm 2.306$   $\chi^2/\text{NDF}$ : 2.0/2

$-2.039 \pm 2.376$   $\chi^2/\text{NDF}$ : 12.6/3

# diff\_bpm12Y\_rms vs slug



Right In: 3257.397+/-1.631  $\chi^2$ /NDF: 8366.9/2

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

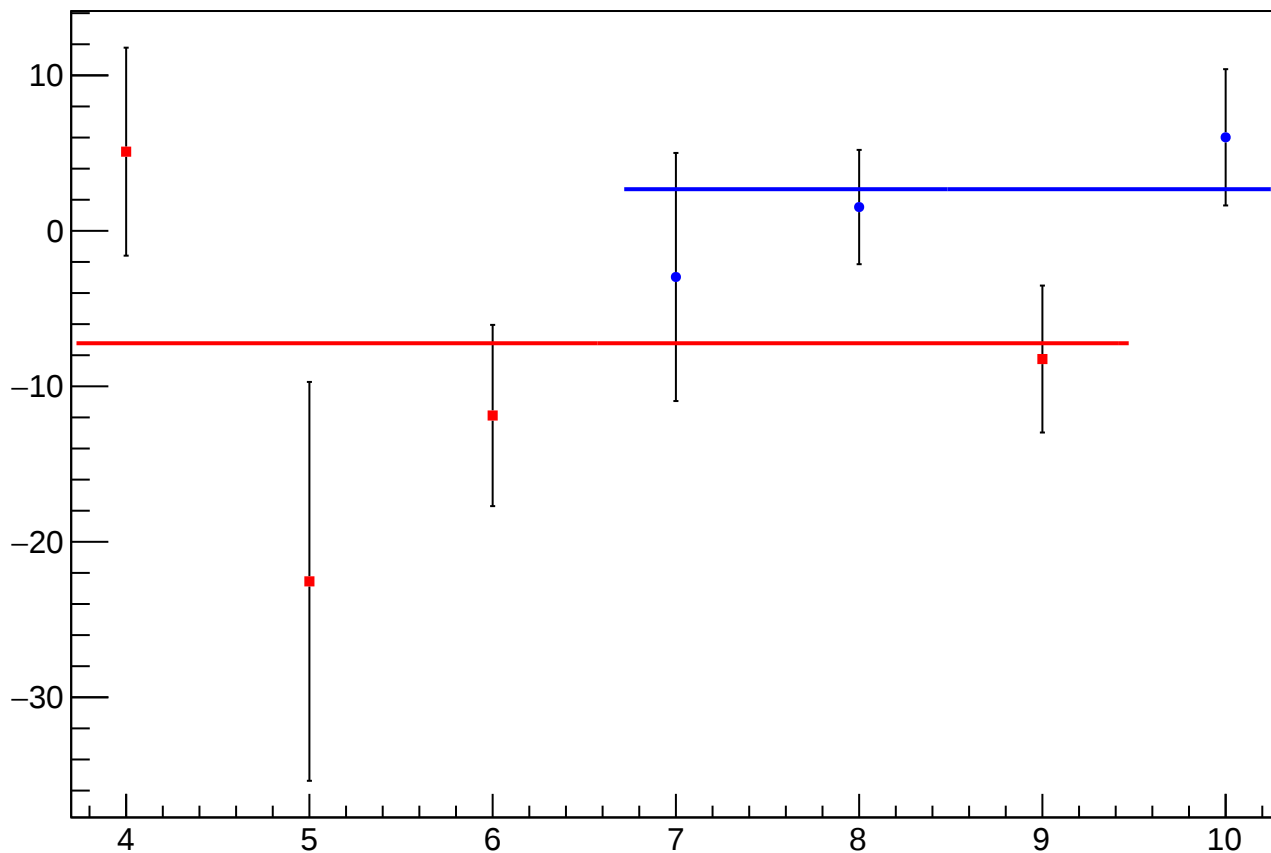
Right Out: 3241.193+/-1.680  $\chi^2$ /NDF: 1164.6/3

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

3257.397+/-1.631  $\chi^2$ /NDF: 8366.9/2

3241.193+/-1.680  $\chi^2$ /NDF: 1164.6/3

# diff\_bpm16X\_mean vs slug



Right In: 2.679+/-2.656  $\chi^2/\text{NDF}$ : 1.2/2

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

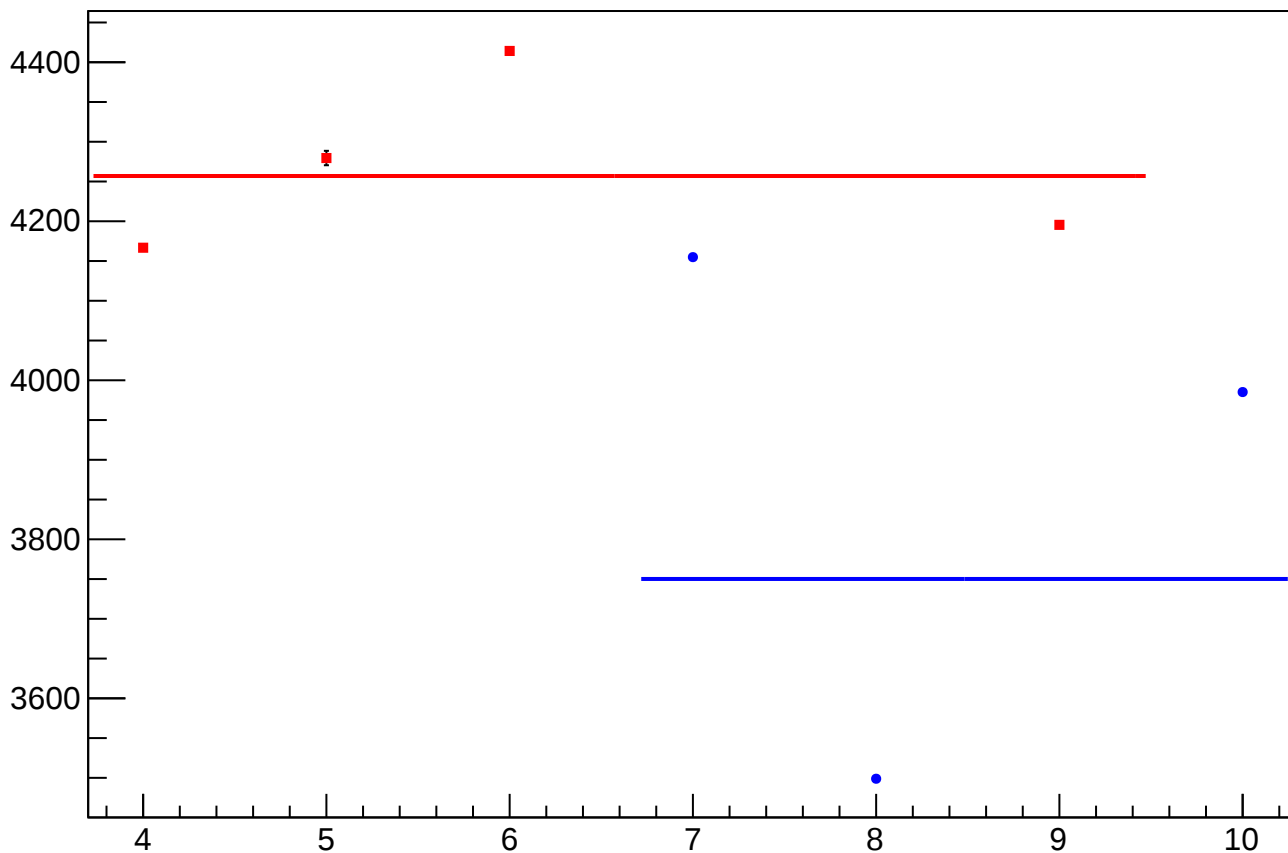
Right Out: -7.229+/-3.121  $\chi^2/\text{NDF}$ : 5.5/3

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

2.679+/-2.656  $\chi^2/\text{NDF}$ : 1.2/2

-7.229+/-3.121  $\chi^2/\text{NDF}$ : 5.5/3

# diff\_bpm16X\_rms vs slug



Right In: 3750.127+/-1.878  $\chi^2/\text{NDF}$ : 20246.2/2

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

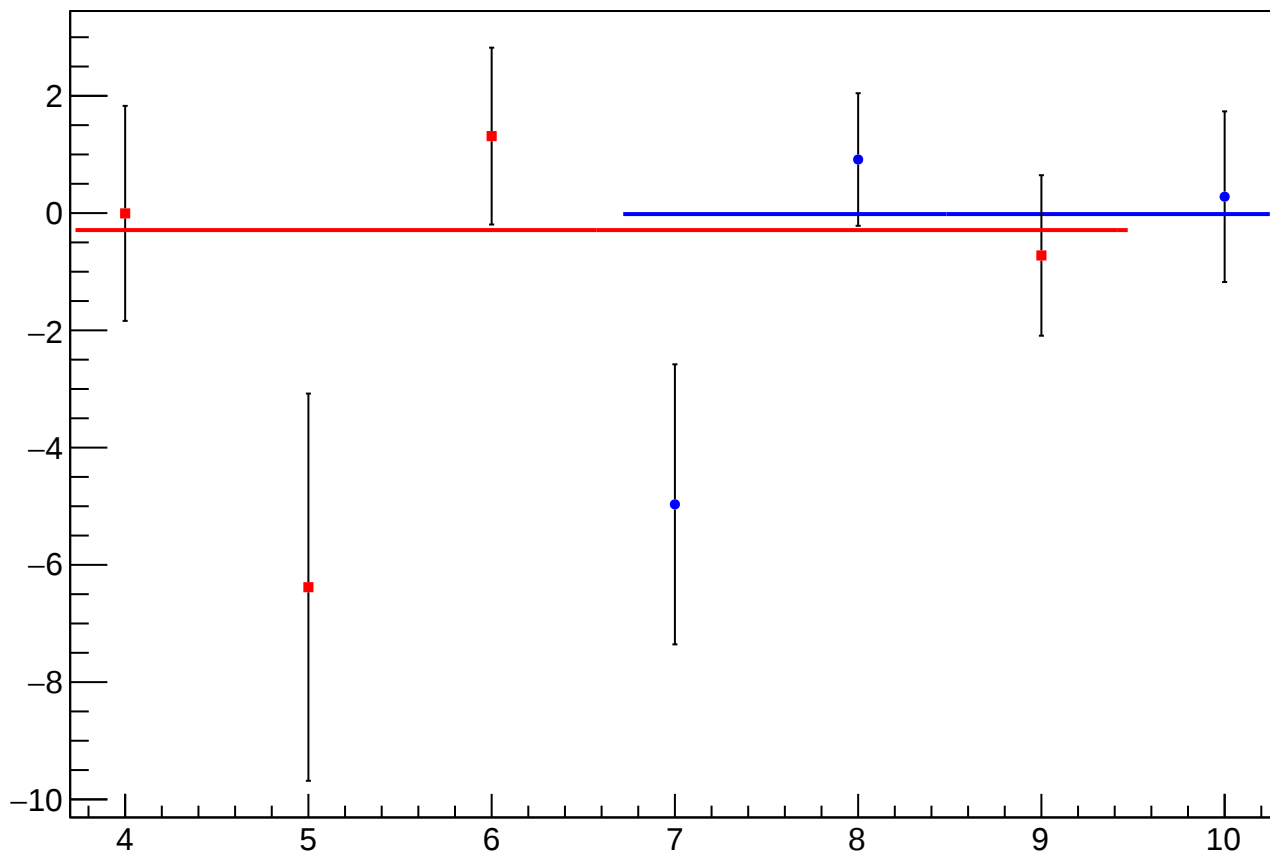
Right Out: 4256.922+/-2.207  $\chi^2/\text{NDF}$ : 2164.5/3

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

3750.127+/-1.878  $\chi^2/\text{NDF}$ : 20246.2/2

4256.922+/-2.207  $\chi^2/\text{NDF}$ : 2164.5/3

diff\_bpm16Y\_mean vs slug



Right In: -0.017 $\pm$ 0.836  $\chi^2$ /NDF: 5.0/2

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

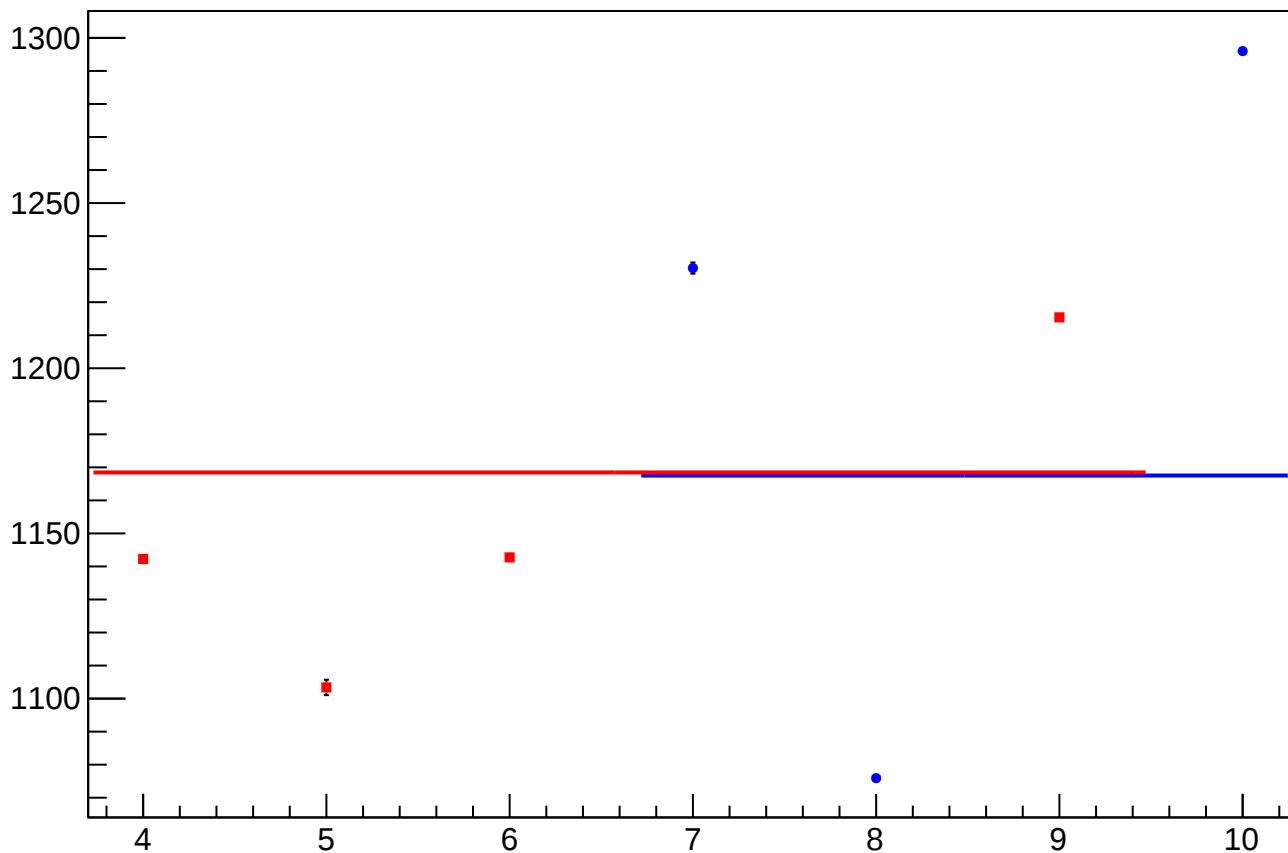
Right Out: -0.290 $\pm$ 0.857  $\chi^2$ /NDF: 4.7/3

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

-0.017 $\pm$ 0.836  $\chi^2$ /NDF: 5.0/2

-0.290 $\pm$ 0.857  $\chi^2$ /NDF: 4.7/3

# diff\_bpm16Y\_rms vs slug



Right In: 1167.523+/-0.591  $\chi^2$ /NDF: 30092.0/2

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

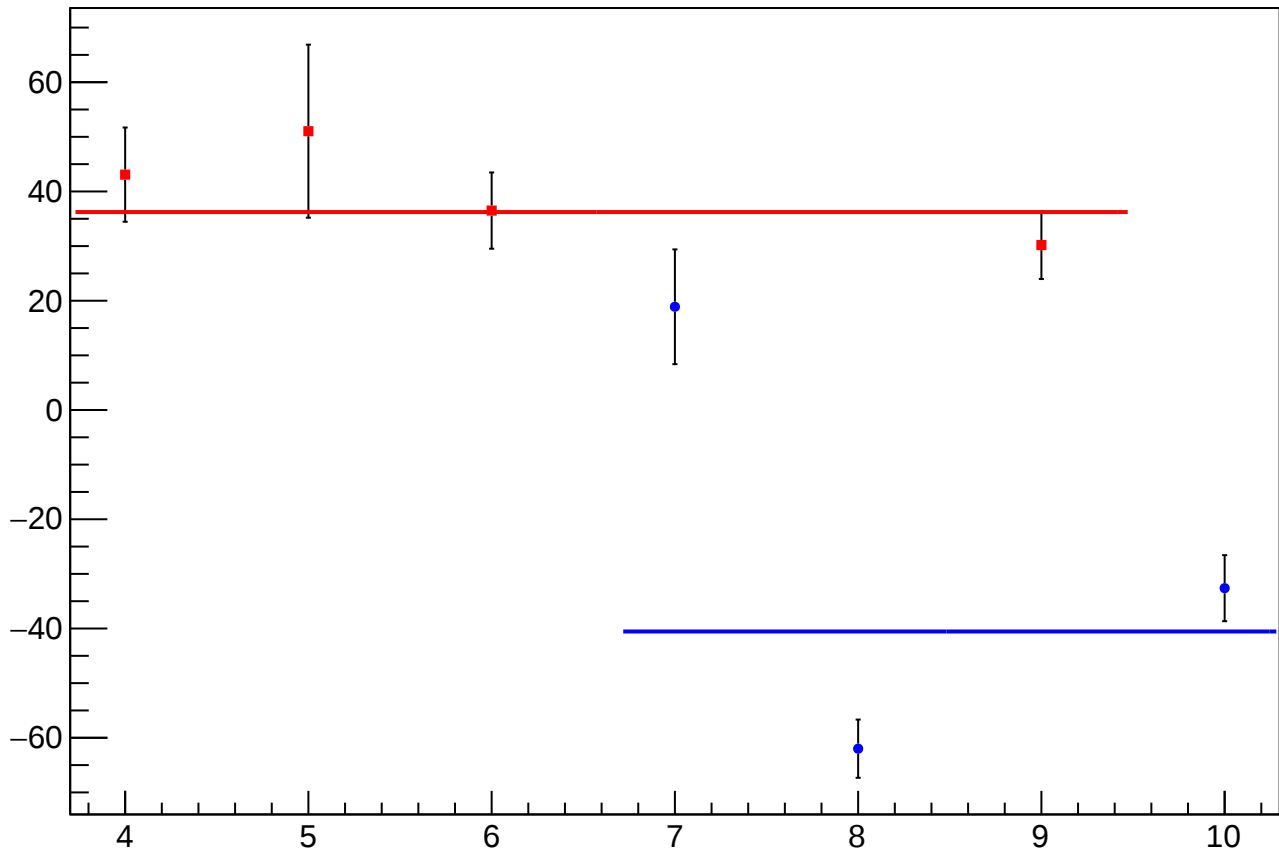
Right Out: 1168.459+/-0.606  $\chi^2$ /NDF: 4119.9/3

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

1167.523+/-0.591  $\chi^2$ /NDF: 30092.0/2

1168.459+/-0.606  $\chi^2$ /NDF: 4119.9/3

# diff\_bpm0l01X\_mean vs slug



Right In: -40.545 $\pm$ 3.736  $\chi^2$ /NDF: 50.0/2

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

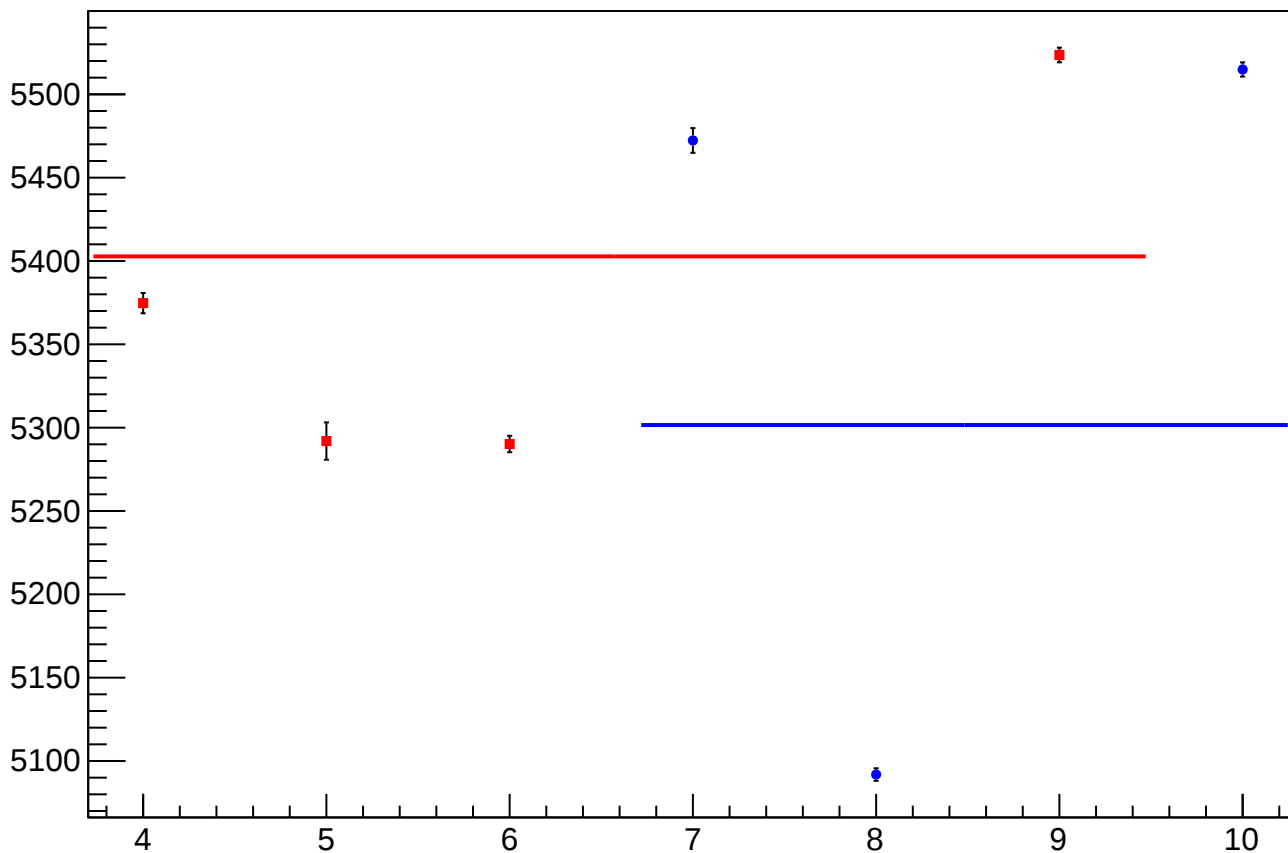
Right Out: 36.233 $\pm$ 3.958  $\chi^2$ /NDF: 2.5/3

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

-40.545 $\pm$ 3.736  $\chi^2$ /NDF: 50.0/2

36.233 $\pm$ 3.958  $\chi^2$ /NDF: 2.5/3

# diff\_bpm0l01X\_rms vs slug



Right In: 5301.575+/-2.641  $\chi^2$ /NDF: 6117.7/2

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

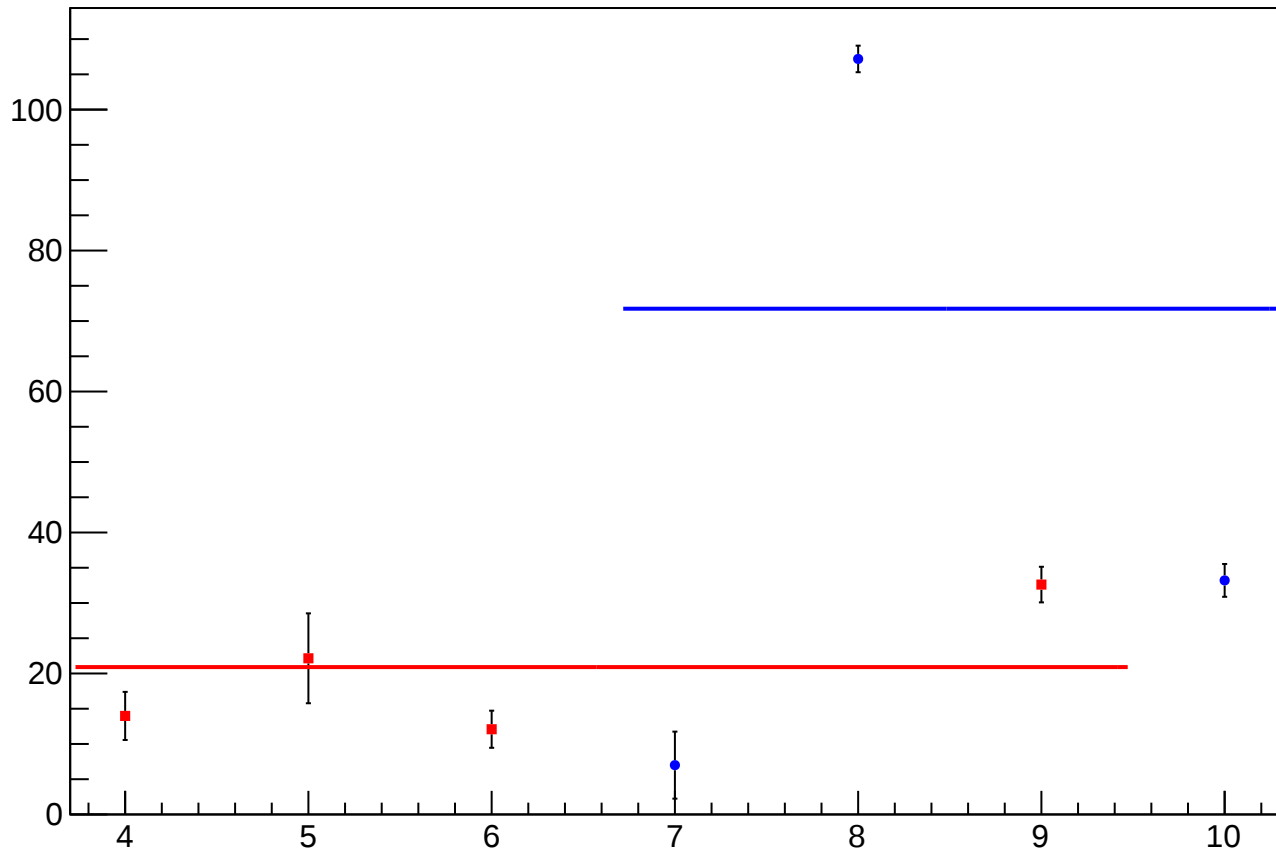
Right Out: 5402.759+/-2.799  $\chi^2$ /NDF: 1394.9/3

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

5301.575+/-2.641  $\chi^2$ /NDF: 6117.7/2

5402.759+/-2.799  $\chi^2$ /NDF: 1394.9/3

diff\_bpm0l01Y\_mean vs slug



Right In: 71.751+/-1.400  $\chi^2$ /NDF: 813.4/2

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

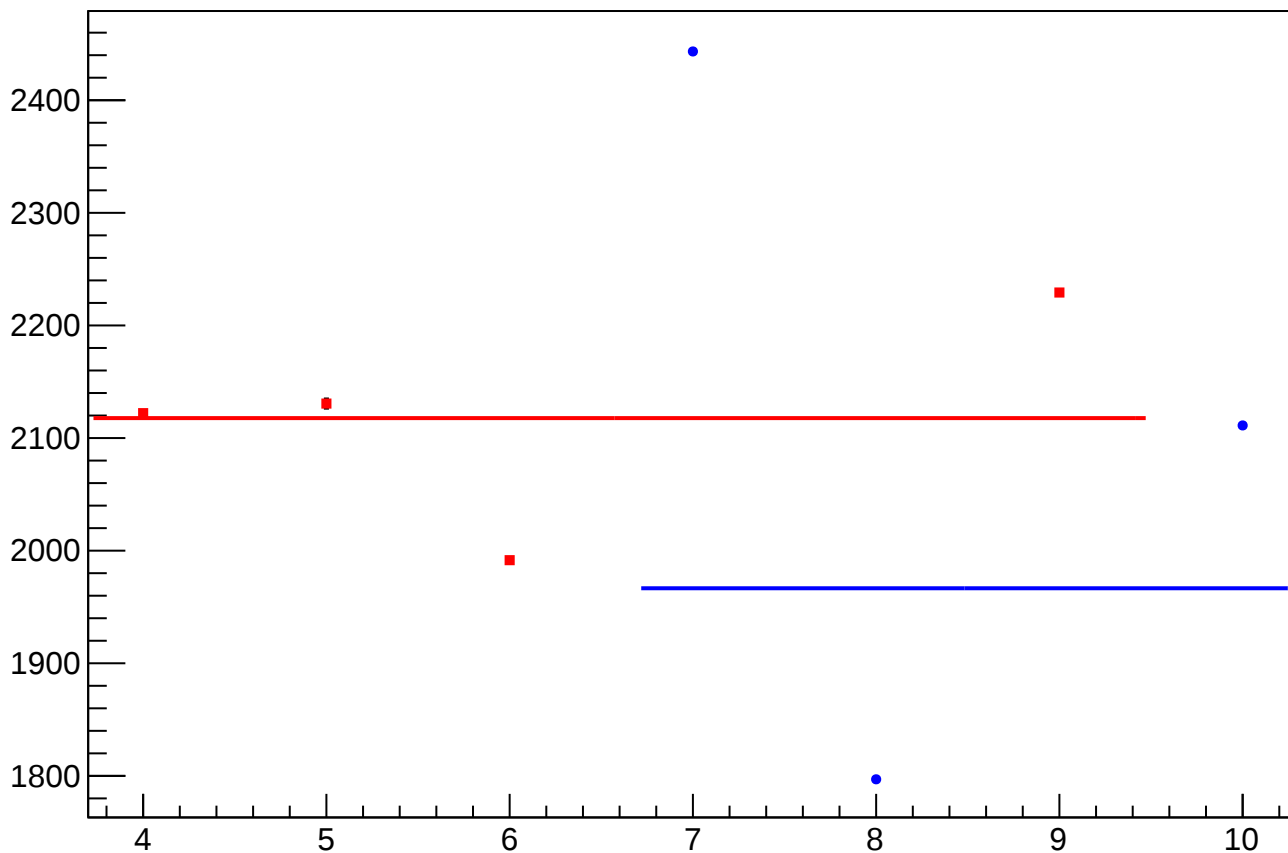
Right Out: 20.908+/-1.559  $\chi^2$ /NDF: 36.9/3

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

71.751+/-1.400  $\chi^2$ /NDF: 813.4/2

20.908+/-1.559  $\chi^2$ /NDF: 36.9/3

# diff\_bpm0l01Y\_rms vs slug



Right In: 1966.612 $\pm$ 0.990  $\chi^2$ /NDF: 44036.4/2

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

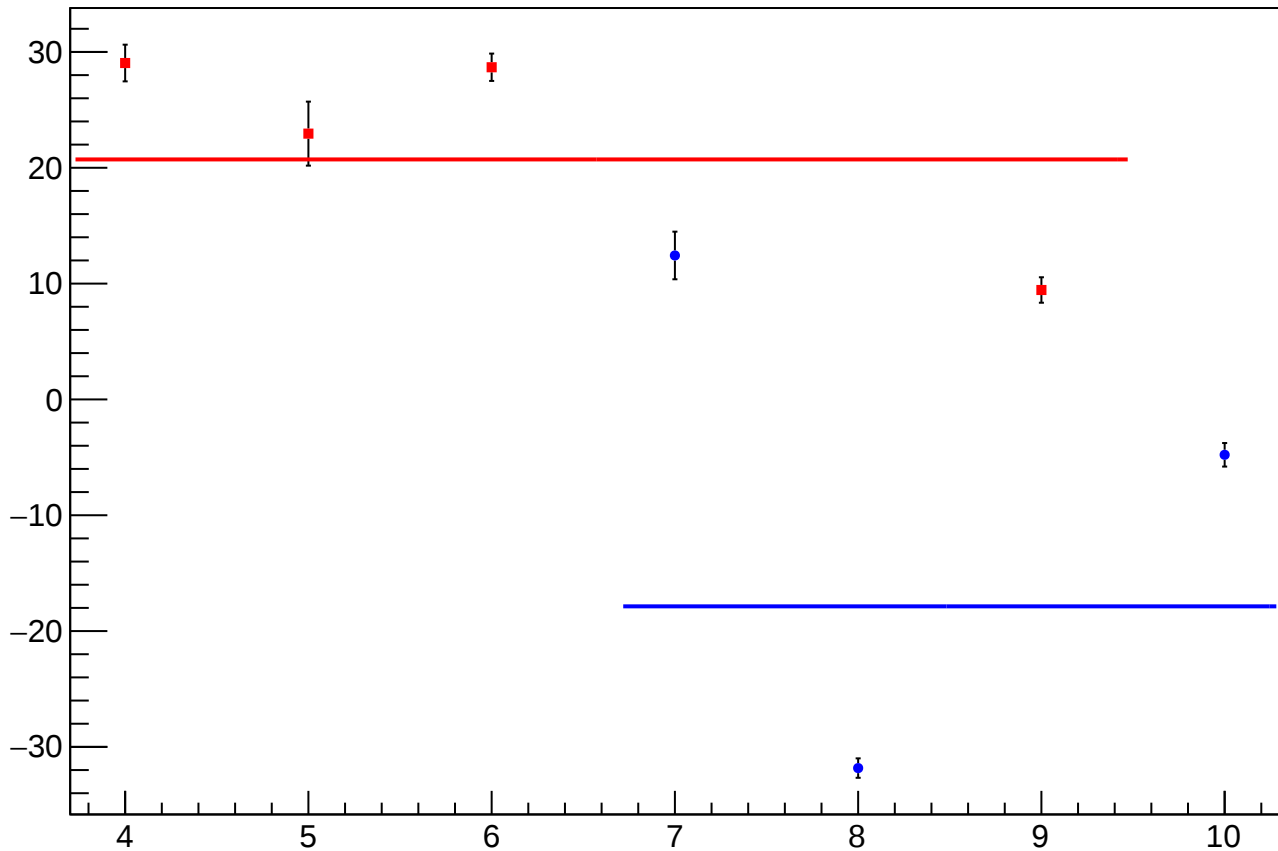
Right Out: 2117.719 $\pm$ 1.102  $\chi^2$ /NDF: 8499.8/3

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

1966.612 $\pm$ 0.990  $\chi^2$ /NDF: 44036.4/2

2117.719 $\pm$ 1.102  $\chi^2$ /NDF: 8499.8/3

diff\_bpm2i01X\_mean vs slug



Right In: -17.866 $\pm$ 0.617  $\chi^2$ /NDF: 659.8/2

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

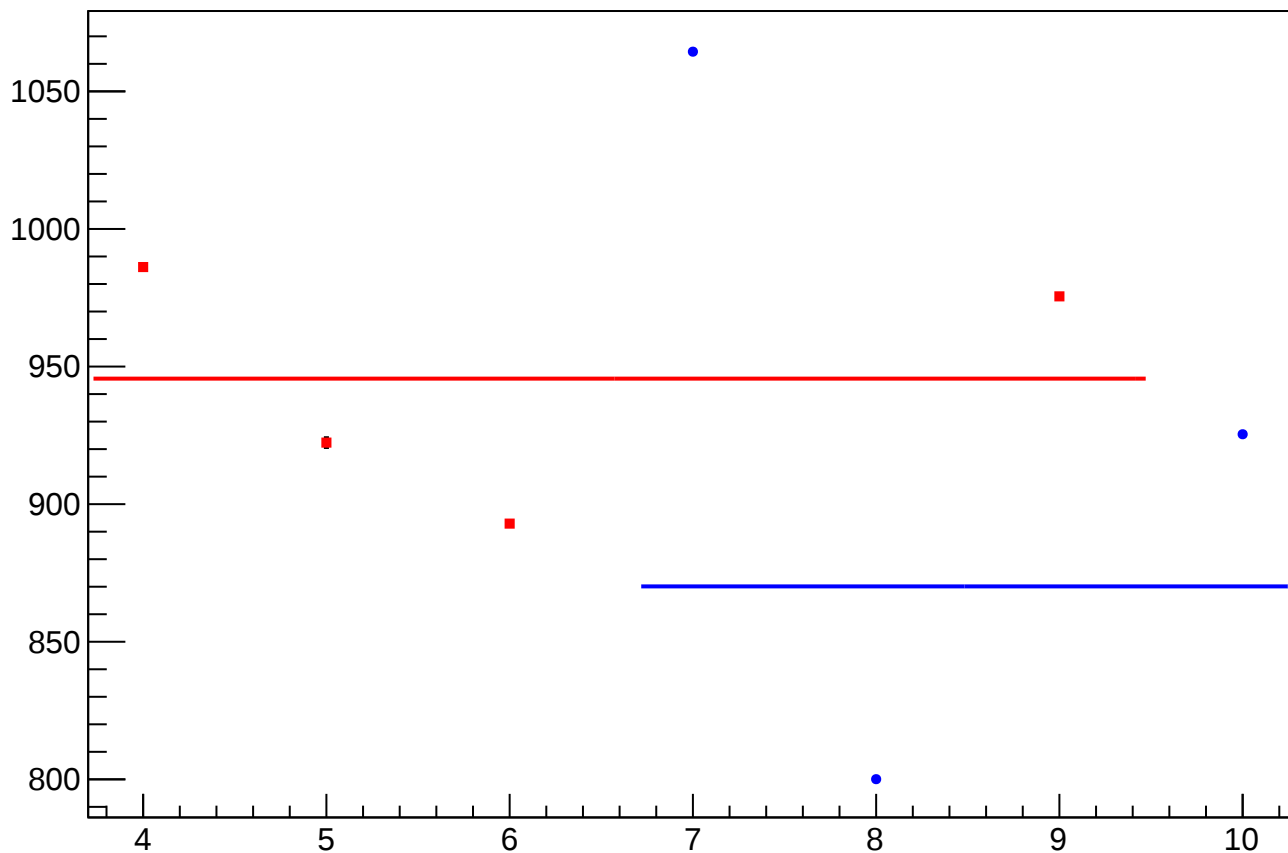
Right Out: 20.721 $\pm$ 0.694  $\chi^2$ /NDF: 178.9/3

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

-17.866 $\pm$ 0.617  $\chi^2$ /NDF: 659.8/2

20.721 $\pm$ 0.694  $\chi^2$ /NDF: 178.9/3

# diff\_bpm2i01X\_rms vs slug



Right In: 870.116 $\pm$ 0.436  $\chi^2$ /NDF: 37723.7/2

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

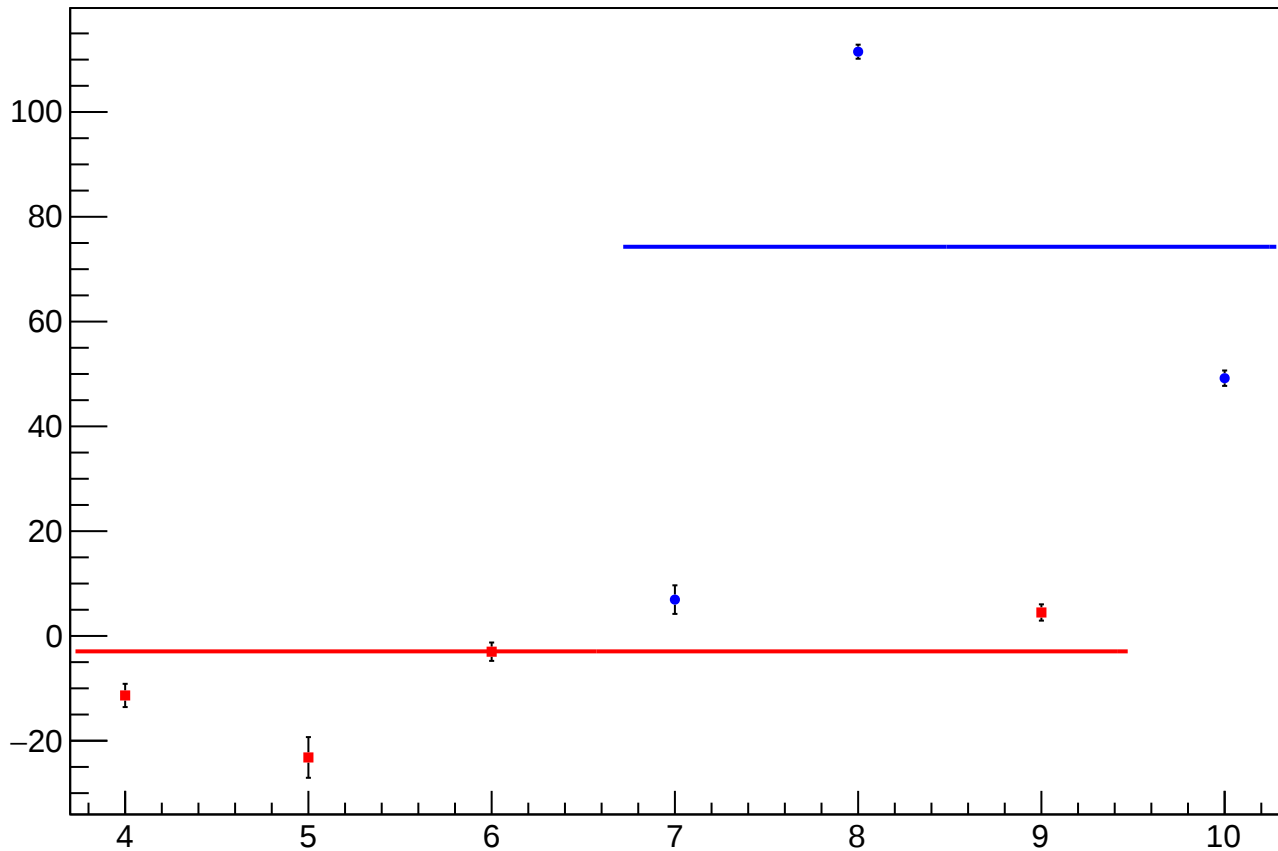
Right Out: 945.616 $\pm$ 0.491  $\chi^2$ /NDF: 6917.1/3

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

870.116 $\pm$ 0.436  $\chi^2$ /NDF: 37723.7/2

945.616 $\pm$ 0.491  $\chi^2$ /NDF: 6917.1/3

# diff\_bpm2i01Y\_mean vs slug



Right In: 74.280 $\pm$ 0.931  $\chi^2$ /NDF: 1670.9/2

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

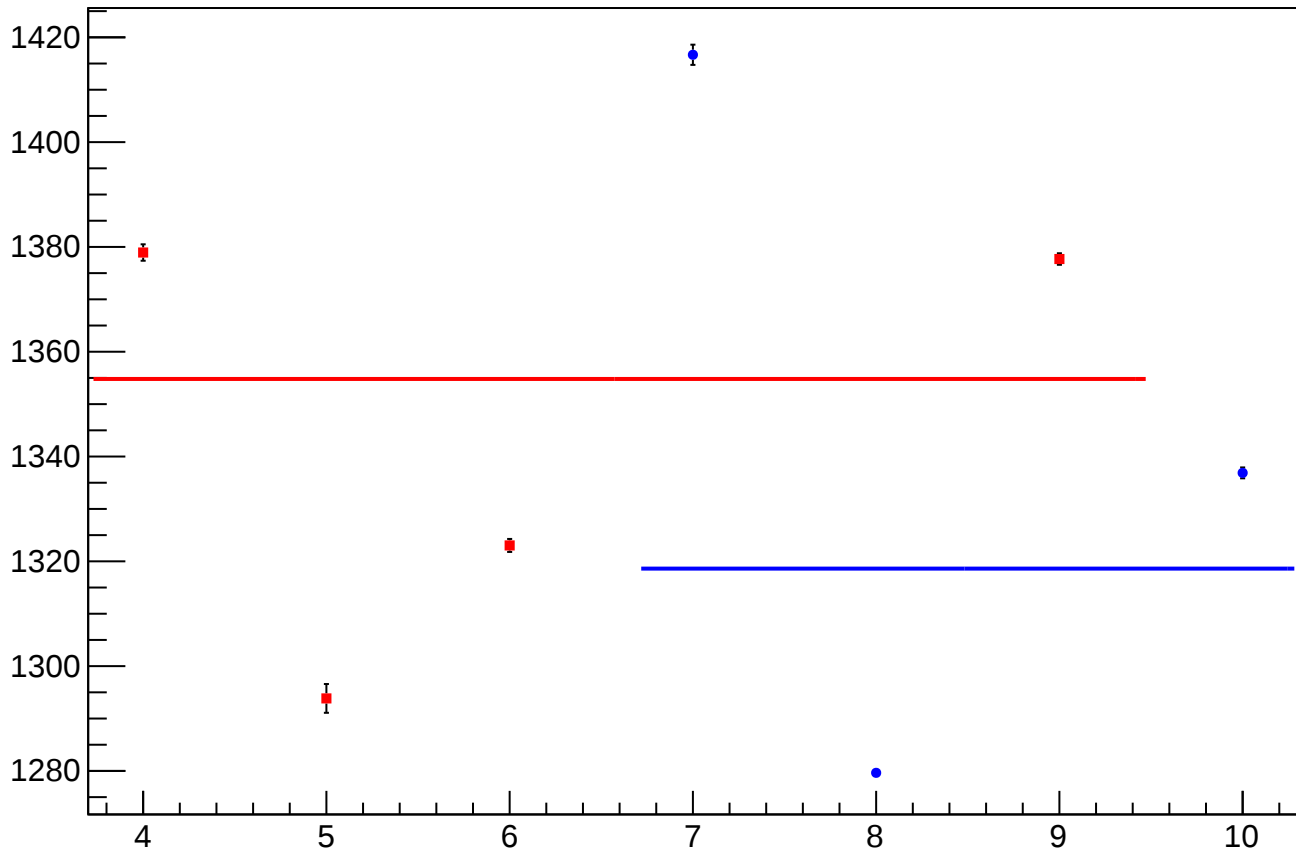
Right Out: -2.943 $\pm$ 0.995  $\chi^2$ /NDF: 64.4/3

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

74.280 $\pm$ 0.931  $\chi^2$ /NDF: 1670.9/2

-2.943 $\pm$ 0.995  $\chi^2$ /NDF: 64.4/3

# diff\_bpm2i01Y\_rms vs slug



Right In: 1318.612 $\pm$ 0.658  $\chi^2$ /NDF: 4580.9/2

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

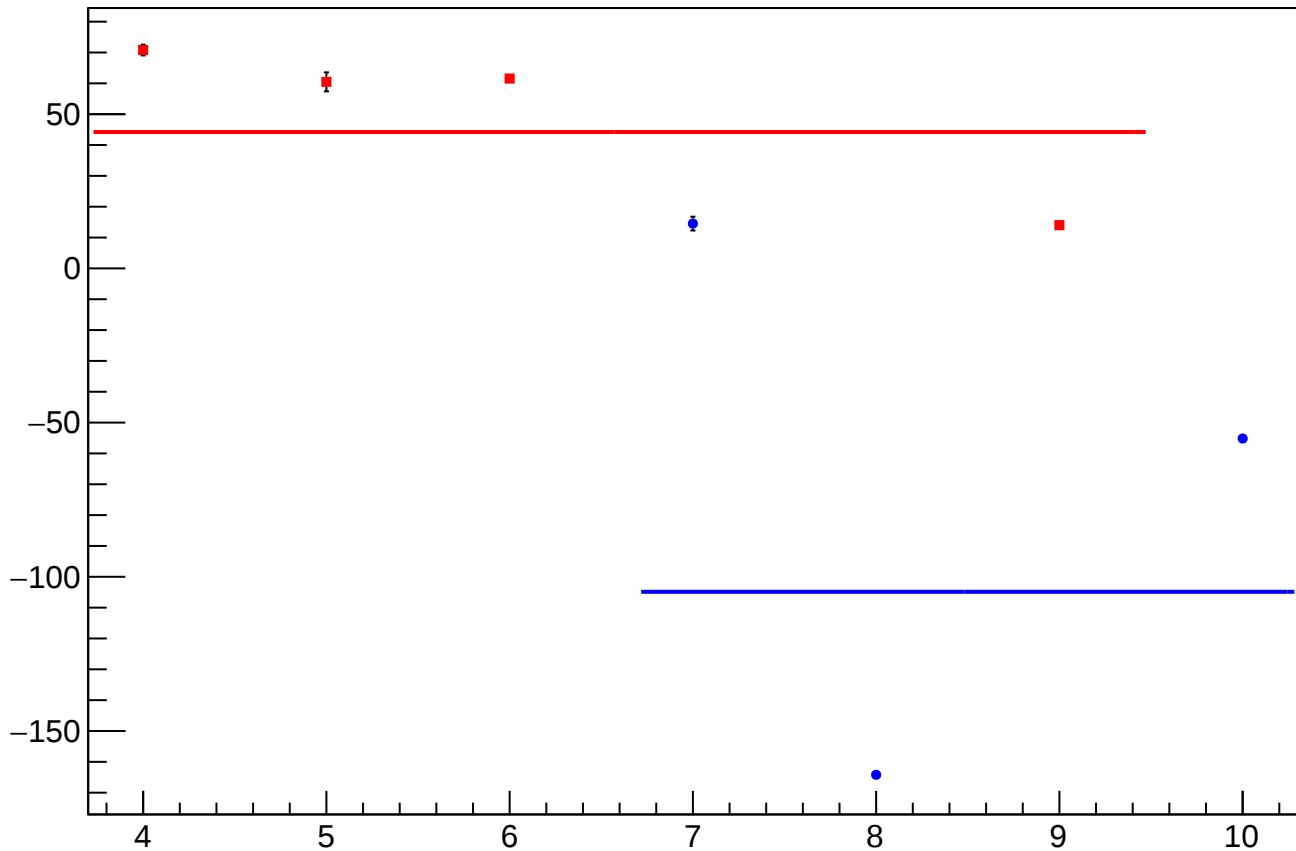
Right Out: 1354.804 $\pm$ 0.704  $\chi^2$ /NDF: 1820.6/3

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

1318.612 $\pm$ 0.658  $\chi^2$ /NDF: 4580.9/2

1354.804 $\pm$ 0.704  $\chi^2$ /NDF: 1820.6/3

# diff\_bpm2i02X\_mean vs slug



Right In: -104.867+/-0.701  $\chi^2$ /NDF: 8488.0/2

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

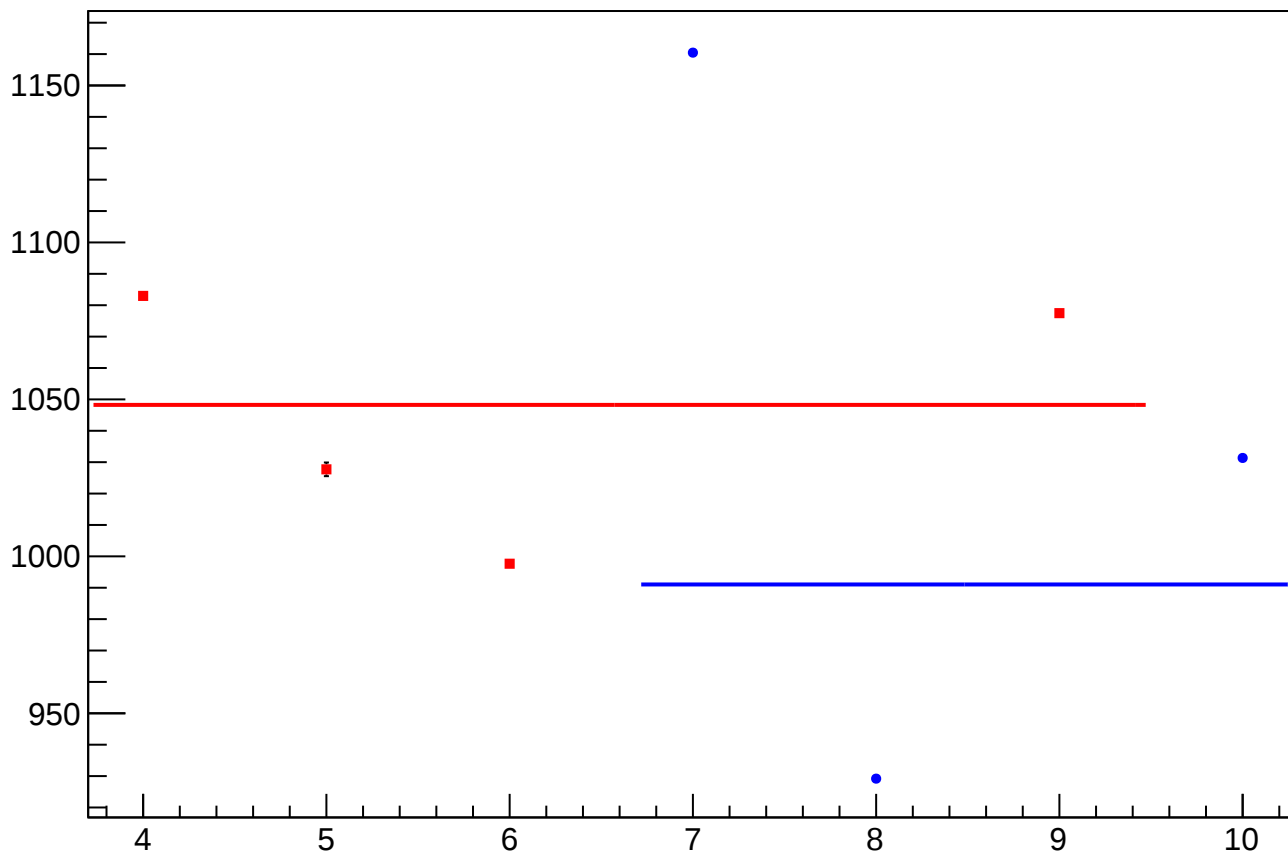
Right Out: 44.214+/-0.769  $\chi^2$ /NDF: 1053.5/3

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

-104.867+/-0.701  $\chi^2$ /NDF: 8488.0/2

44.214+/-0.769  $\chi^2$ /NDF: 1053.5/3

# diff\_bpm2i02X\_rms vs slug



Right In: 991.043+/-0.496  $\chi^2/\text{NDF}$ : 22069.8/2

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

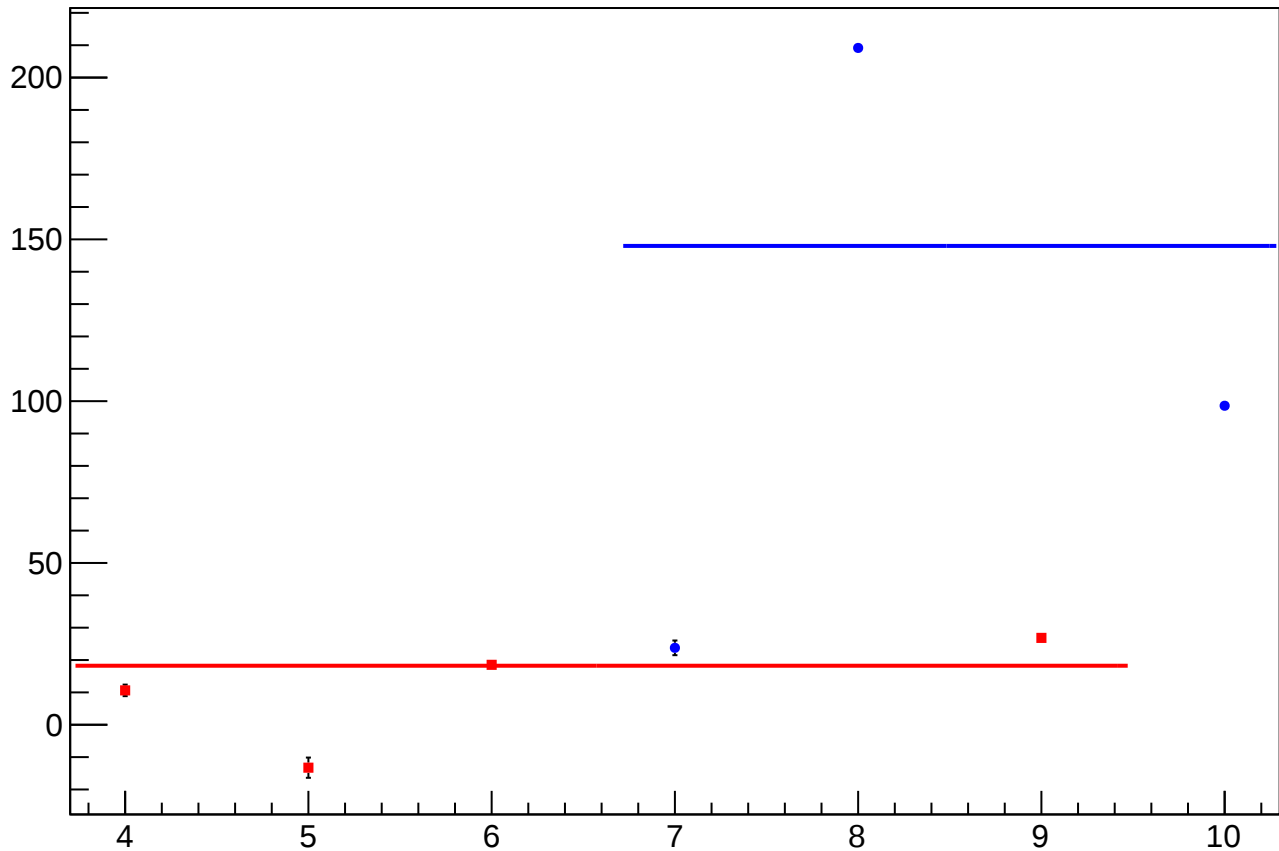
Right Out: 1048.249+/-0.544  $\chi^2/\text{NDF}$ : 4993.5/3

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

991.043+/-0.496  $\chi^2/\text{NDF}$ : 22069.8/2

1048.249+/-0.544  $\chi^2/\text{NDF}$ : 4993.5/3

# diff\_bpm2i02Y\_mean vs slug



Right In: 147.978 $\pm$ 0.723  $\chi^2$ /NDF: 8485.4/2

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

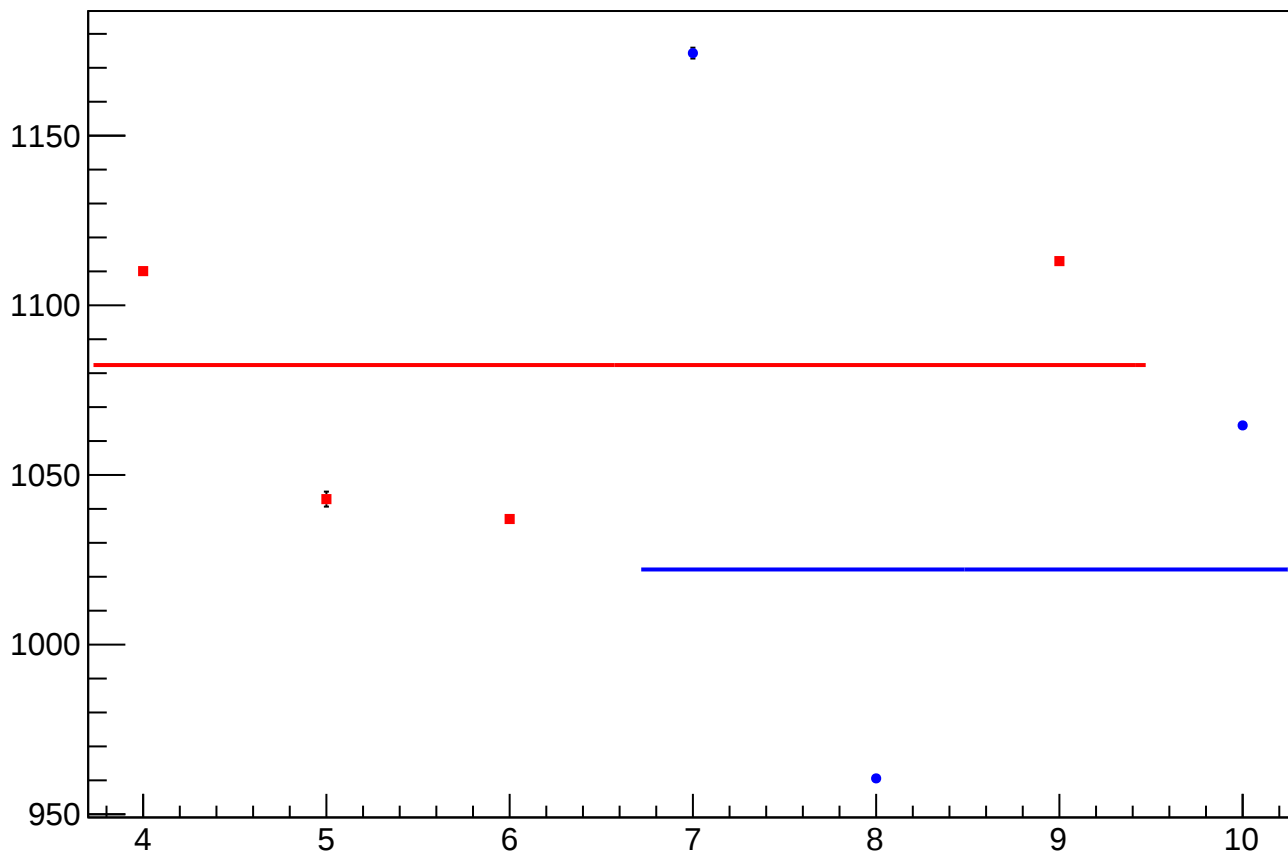
Right Out: 18.241 $\pm$ 0.794  $\chi^2$ /NDF: 167.0/3

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

147.978 $\pm$ 0.723  $\chi^2$ /NDF: 8485.4/2

18.241 $\pm$ 0.794  $\chi^2$ /NDF: 167.0/3

# diff\_bpm2i02Y\_rms vs slug



Right In: 1022.145 $\pm$ 0.511  $\chi^2$ /NDF: 19145.3/2

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

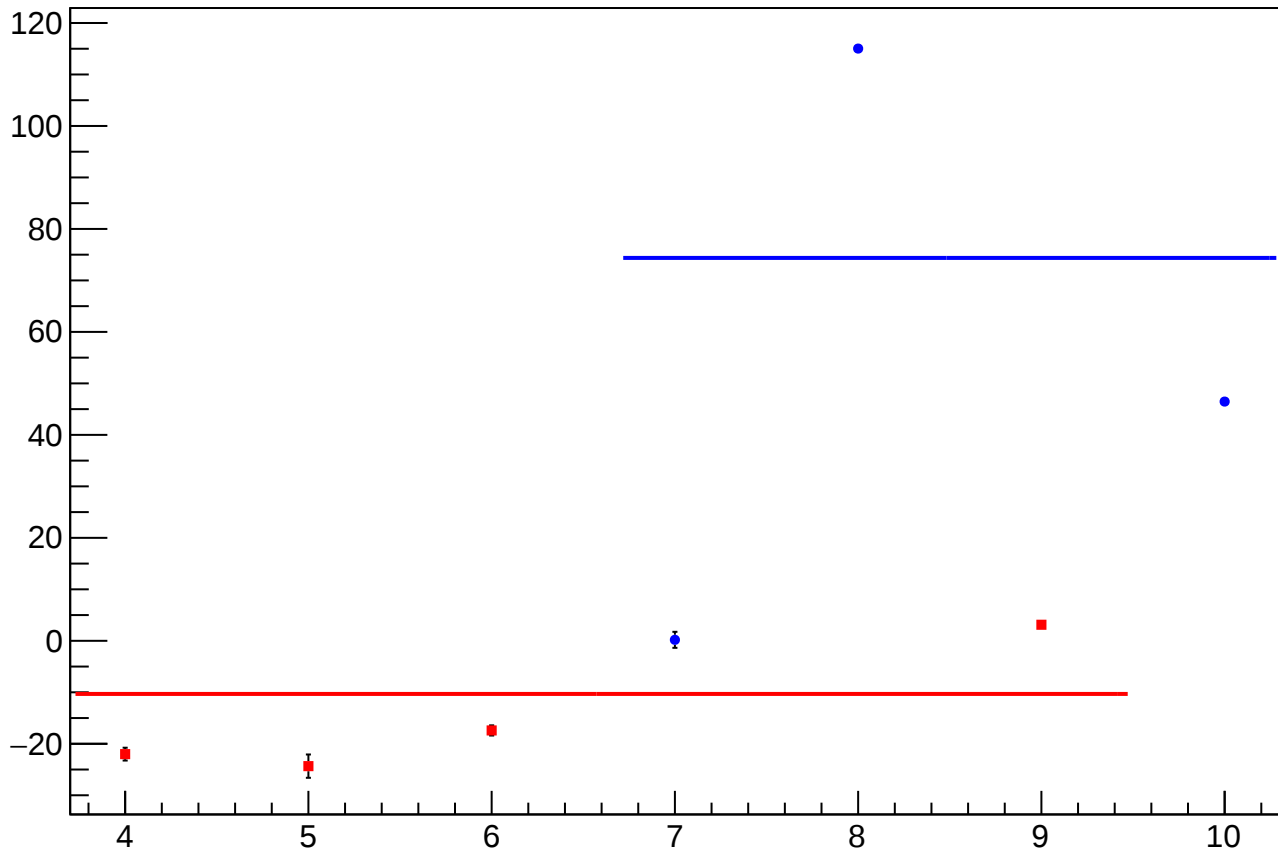
Right Out: 1082.395 $\pm$ 0.562  $\chi^2$ /NDF: 4185.6/3

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

1022.145 $\pm$ 0.511  $\chi^2$ /NDF: 19145.3/2

1082.395 $\pm$ 0.562  $\chi^2$ /NDF: 4185.6/3

diff\_bpm1i04X\_mean vs slug



Right In: 74.372+/-0.528  $\chi^2$ /NDF: 6272.8/2

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

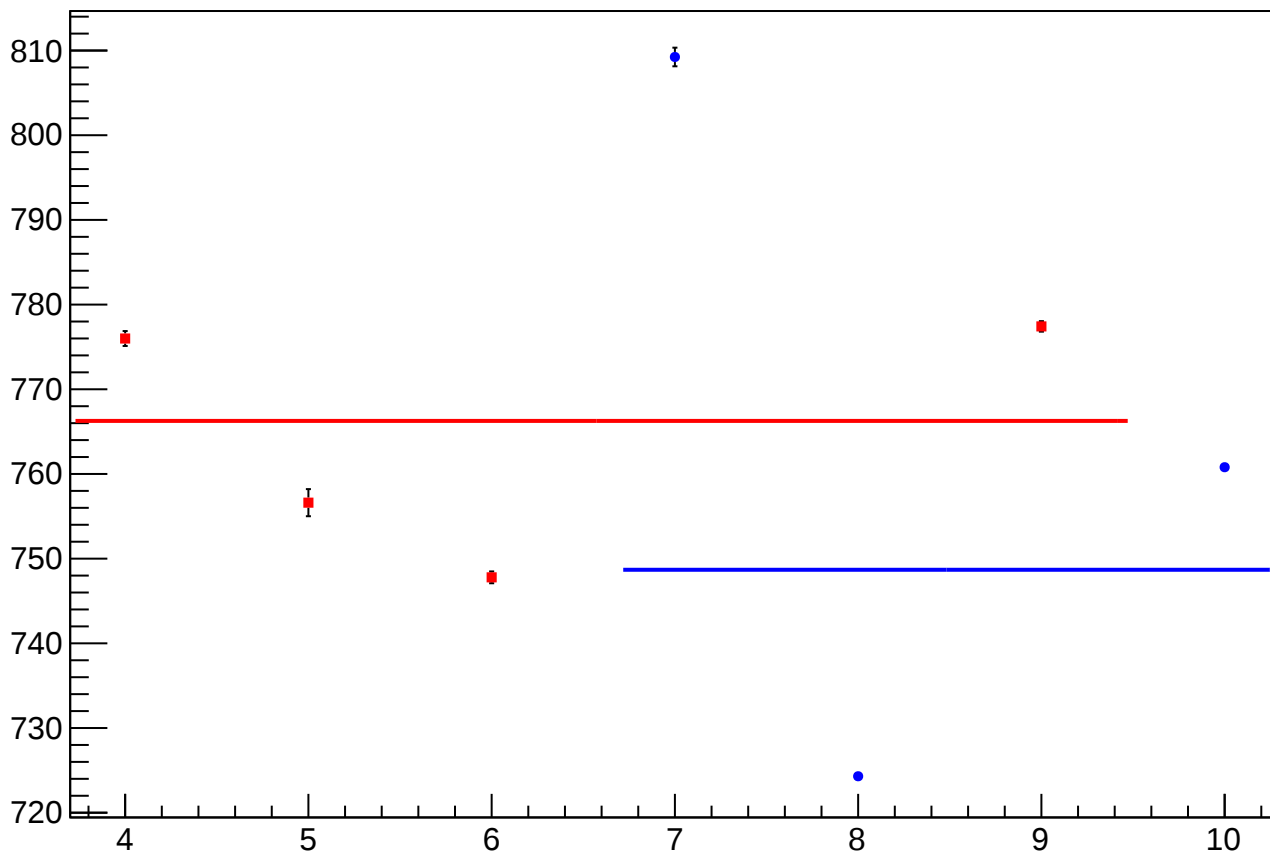
74.372+/-0.528  $\chi^2$ /NDF: 6272.8/2

Right Out: -10.317+/-0.561  $\chi^2$ /NDF: 413.9/3

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

-10.317+/-0.561  $\chi^2$ /NDF: 413.9/3

# diff\_bpm1i04X\_rms vs slug



Right In: 748.686 $\pm$ 0.373  $\chi^2$ /NDF: 5524.0/2

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

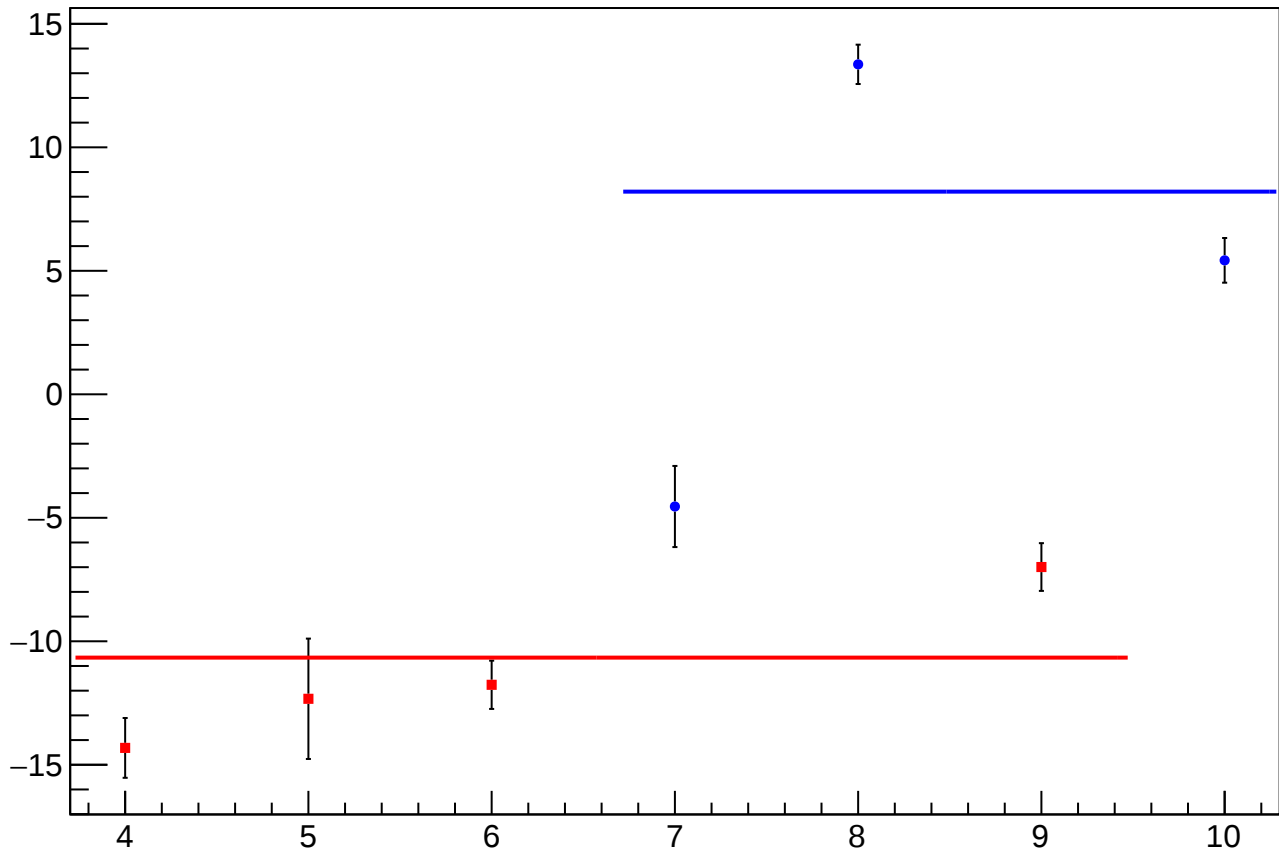
Right Out: 766.264 $\pm$ 0.397  $\chi^2$ /NDF: 1184.2/3

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

748.686 $\pm$ 0.373  $\chi^2$ /NDF: 5524.0/2

766.264 $\pm$ 0.397  $\chi^2$ /NDF: 1184.2/3

diff\_bpm1i04Y\_mean vs slug



Right In: 8.206+/-0.562  $\chi^2/\text{NDF}$ : 111.6/2

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

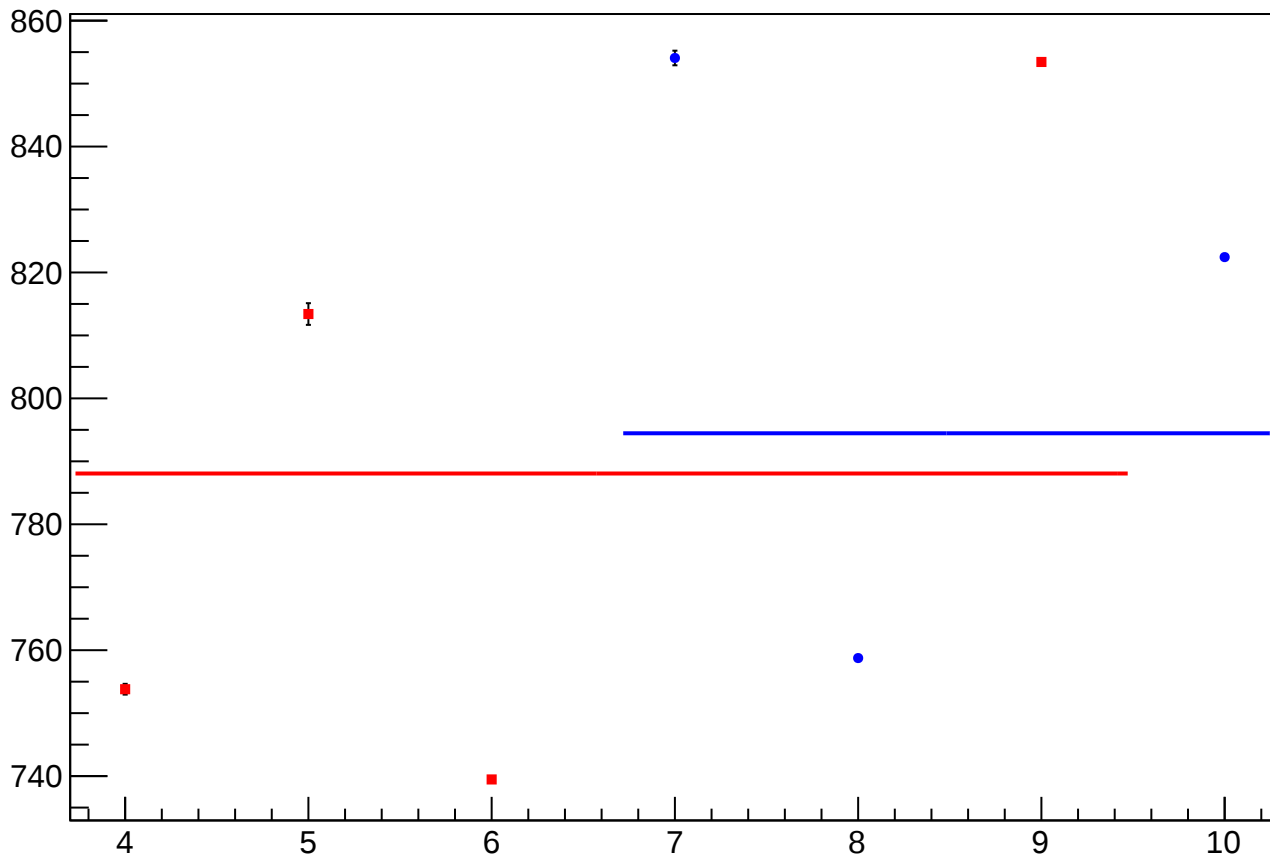
Right Out: -10.661+/-0.580  $\chi^2/\text{NDF}$ : 25.3/3

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

8.206+/-0.562  $\chi^2/\text{NDF}$ : 111.6/2

-10.661+/-0.580  $\chi^2/\text{NDF}$ : 25.3/3

# diff\_bpm1i04Y\_rms vs slug



Right In: 794.455+/-0.397  $\chi^2/\text{NDF}$ : 8568.6/2

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

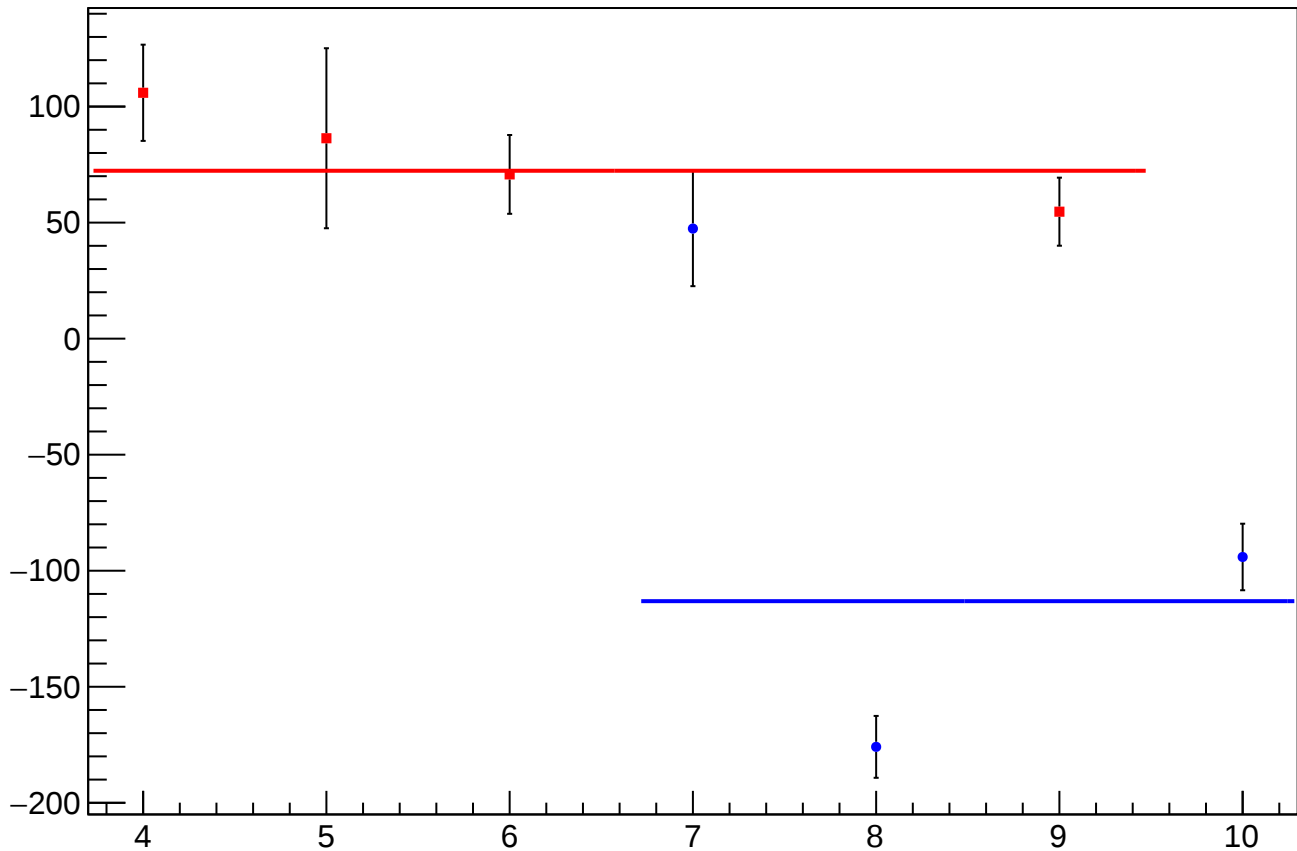
Right Out: 788.066+/-0.410  $\chi^2/\text{NDF}$ : 15911.6/3

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

794.455+/-0.397  $\chi^2/\text{NDF}$ : 8568.6/2

788.066+/-0.410  $\chi^2/\text{NDF}$ : 15911.6/3

diff\_bpm0l02X\_mean vs slug



Right In:  $-113.115 \pm 9.085$   $\chi^2/\text{NDF}$ : 65.8/2

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

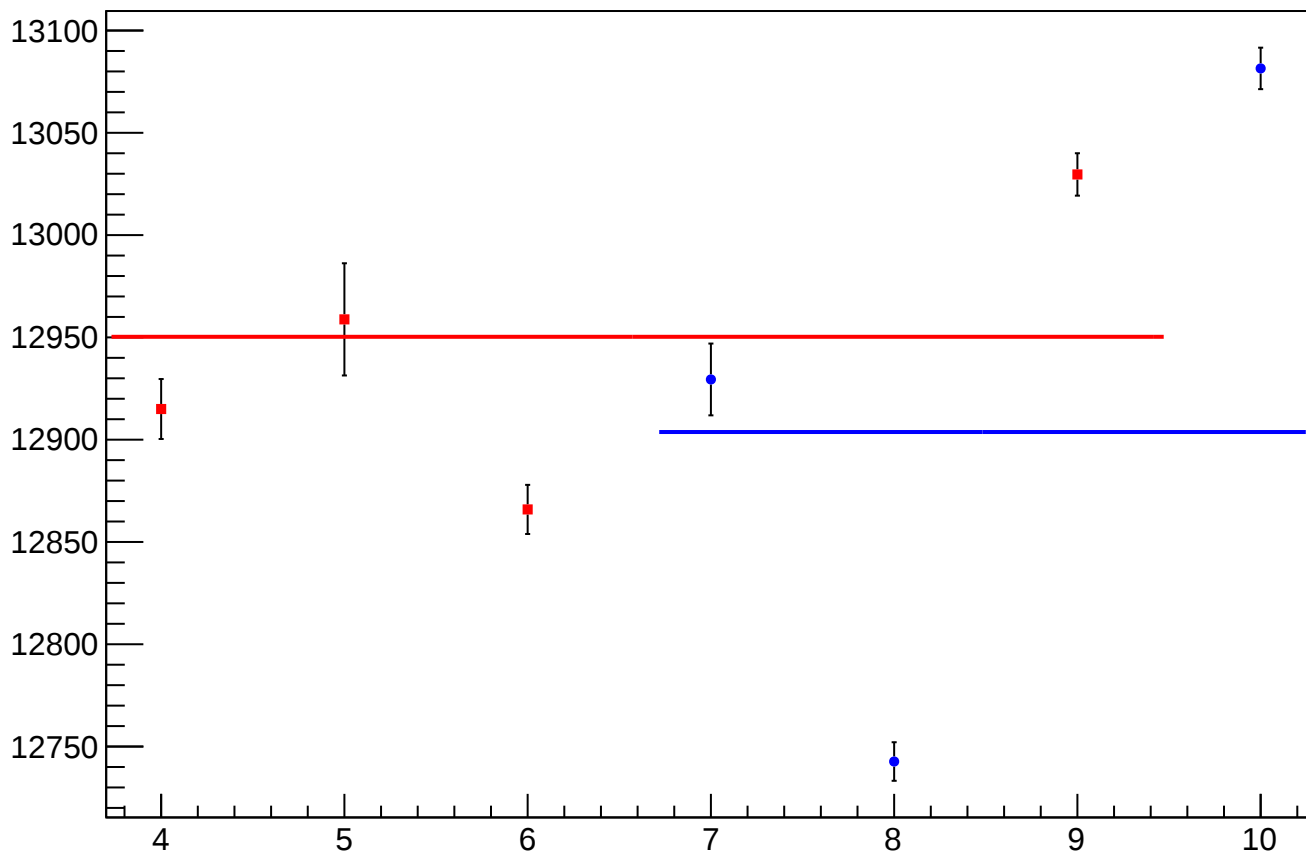
Right Out:  $72.343 \pm 9.486$   $\chi^2/\text{NDF}$ : 4.2/3

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

$-113.115 \pm 9.085$   $\chi^2/\text{NDF}$ : 65.8/2

$72.343 \pm 9.486$   $\chi^2/\text{NDF}$ : 4.2/3

# diff\_bpm0l02X\_rms vs slug



Right In: 12903.744 $\pm$ 6.424  $\chi^2$ /NDF: 601.5/2

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

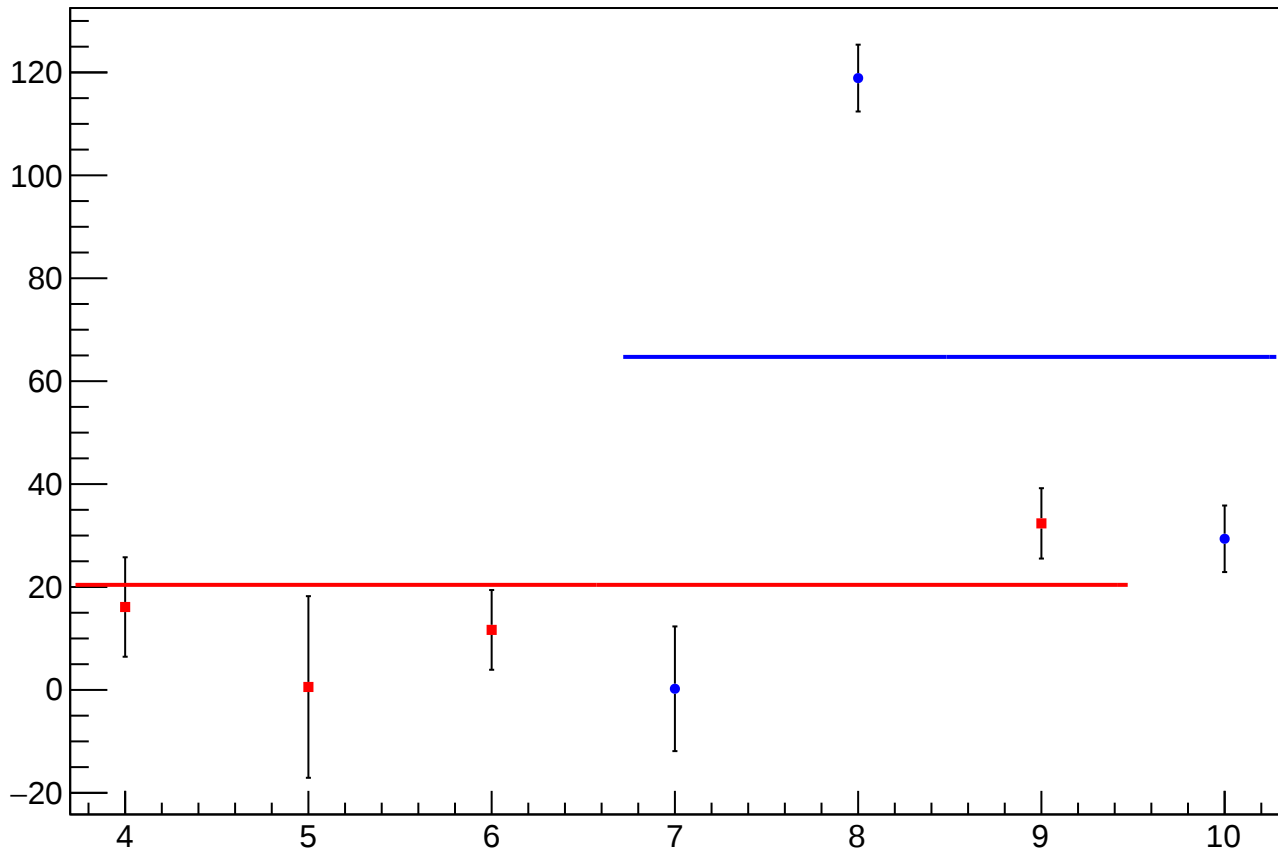
Right Out: 12950.291 $\pm$ 6.708  $\chi^2$ /NDF: 113.9/3

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

12903.744 $\pm$ 6.424  $\chi^2$ /NDF: 601.5/2

12950.291 $\pm$ 6.708  $\chi^2$ /NDF: 113.9/3

# diff\_bpm0l02Y\_mean vs slug



Right In: 64.717+/-4.286  $\chi^2$ /NDF: 127.8/2

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

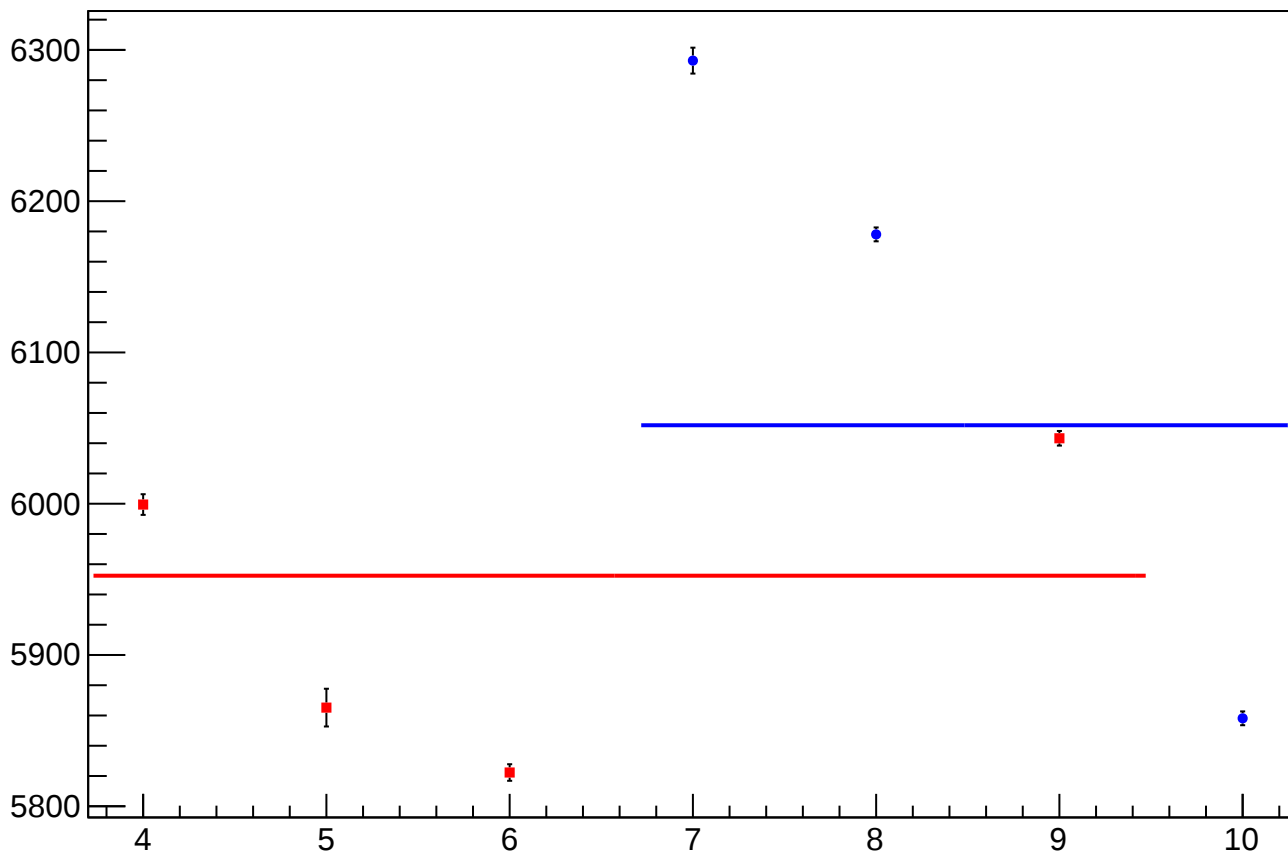
Right Out: 20.419+/-4.387  $\chi^2$ /NDF: 5.8/3

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

64.717+/-4.286  $\chi^2$ /NDF: 127.8/2

20.419+/-4.387  $\chi^2$ /NDF: 5.8/3

# diff\_bpm0l02Y\_rms vs slug



Right In: 6051.875+/-3.030  $\chi^2/\text{NDF}$ : 3342.4/2

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

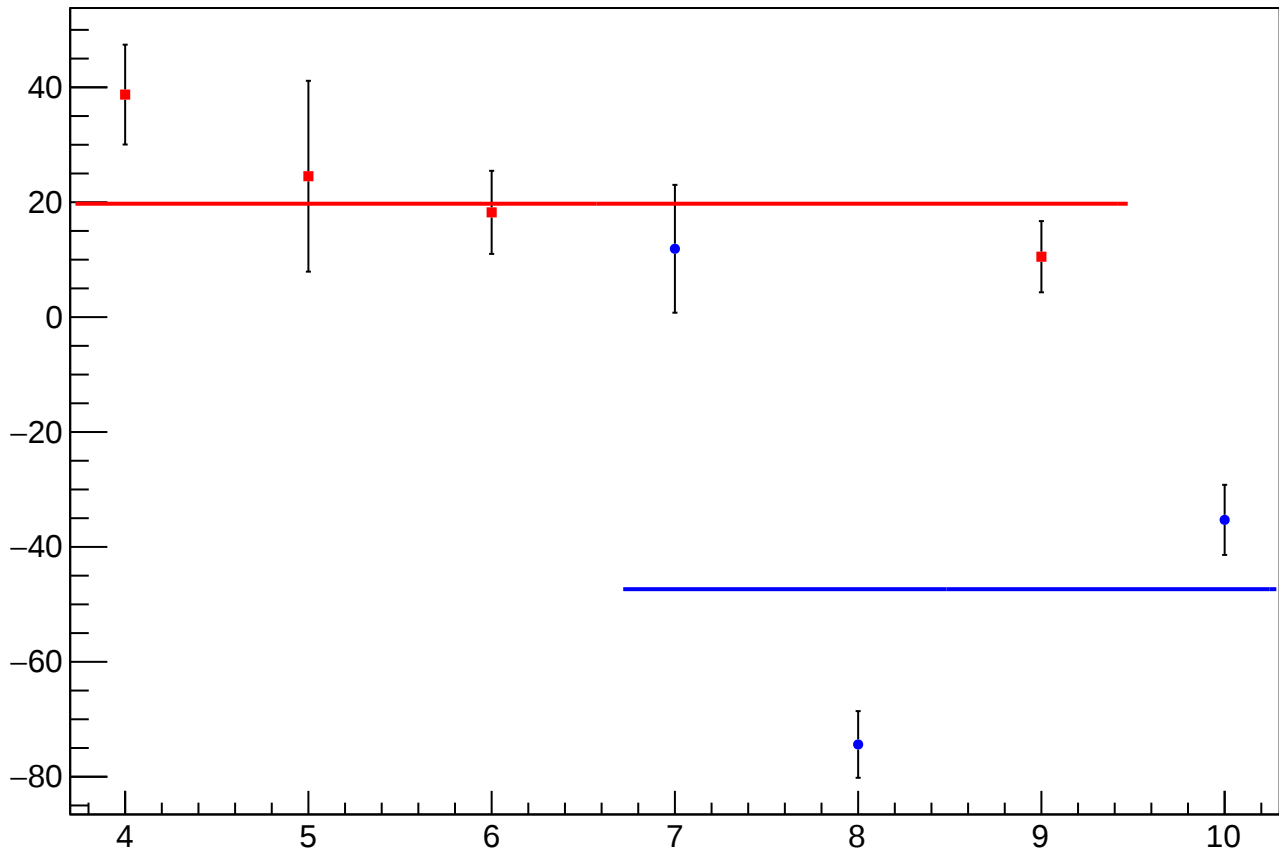
Right Out: 5952.414+/-3.102  $\chi^2/\text{NDF}$ : 1013.1/3

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

6051.875+/-3.030  $\chi^2/\text{NDF}$ : 3342.4/2

5952.414+/-3.102  $\chi^2/\text{NDF}$ : 1013.1/3

# diff\_bpm0l03X\_mean vs slug



Right In: -47.355 $\pm$ 3.934  $\chi^2$ /NDF: 54.0/2

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

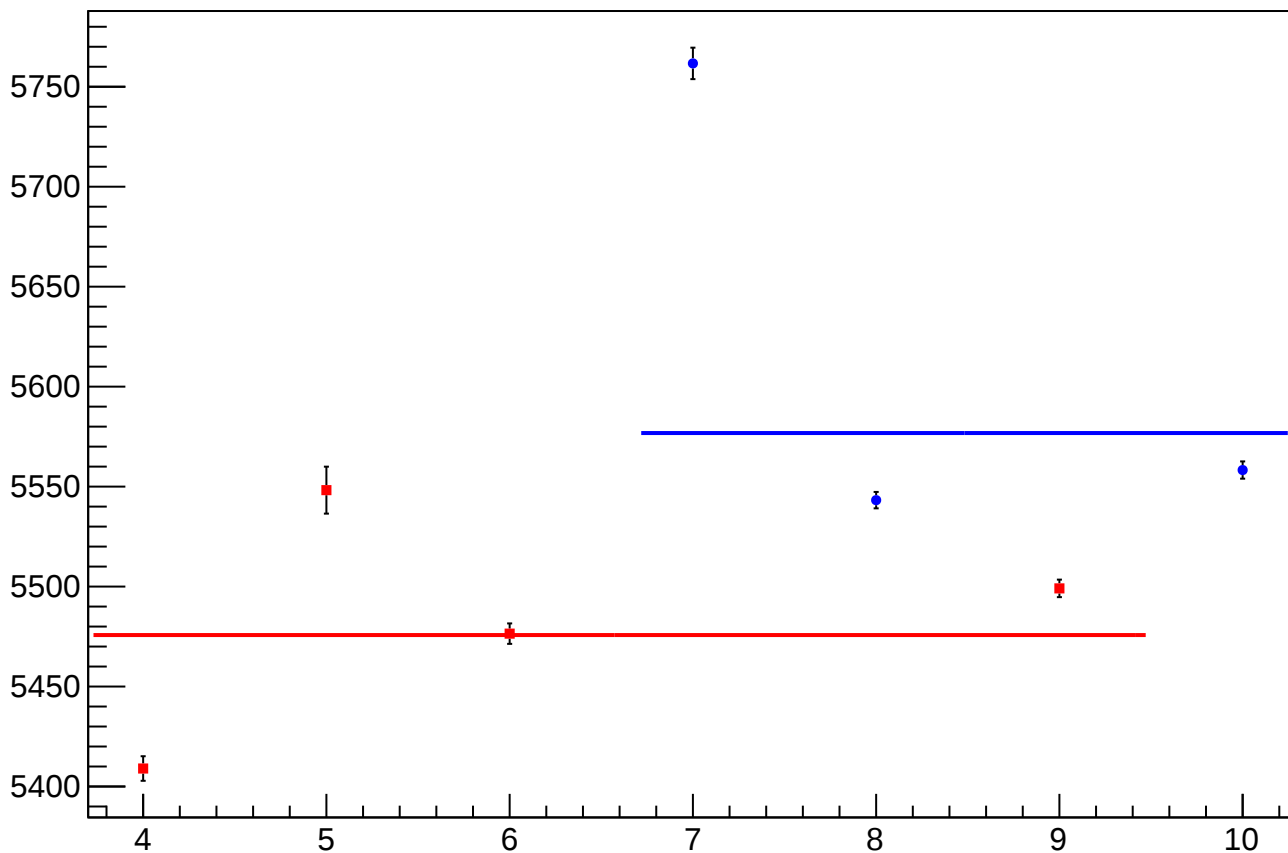
Right Out: 19.738 $\pm$ 4.015  $\chi^2$ /NDF: 7.1/3

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

-47.355 $\pm$ 3.934  $\chi^2$ /NDF: 54.0/2

19.738 $\pm$ 4.015  $\chi^2$ /NDF: 7.1/3

# diff\_bpm0l03X\_rms vs slug



Right In: 5576.792 $\pm$ 2.781  $\chi^2$ /NDF: 637.6/2

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

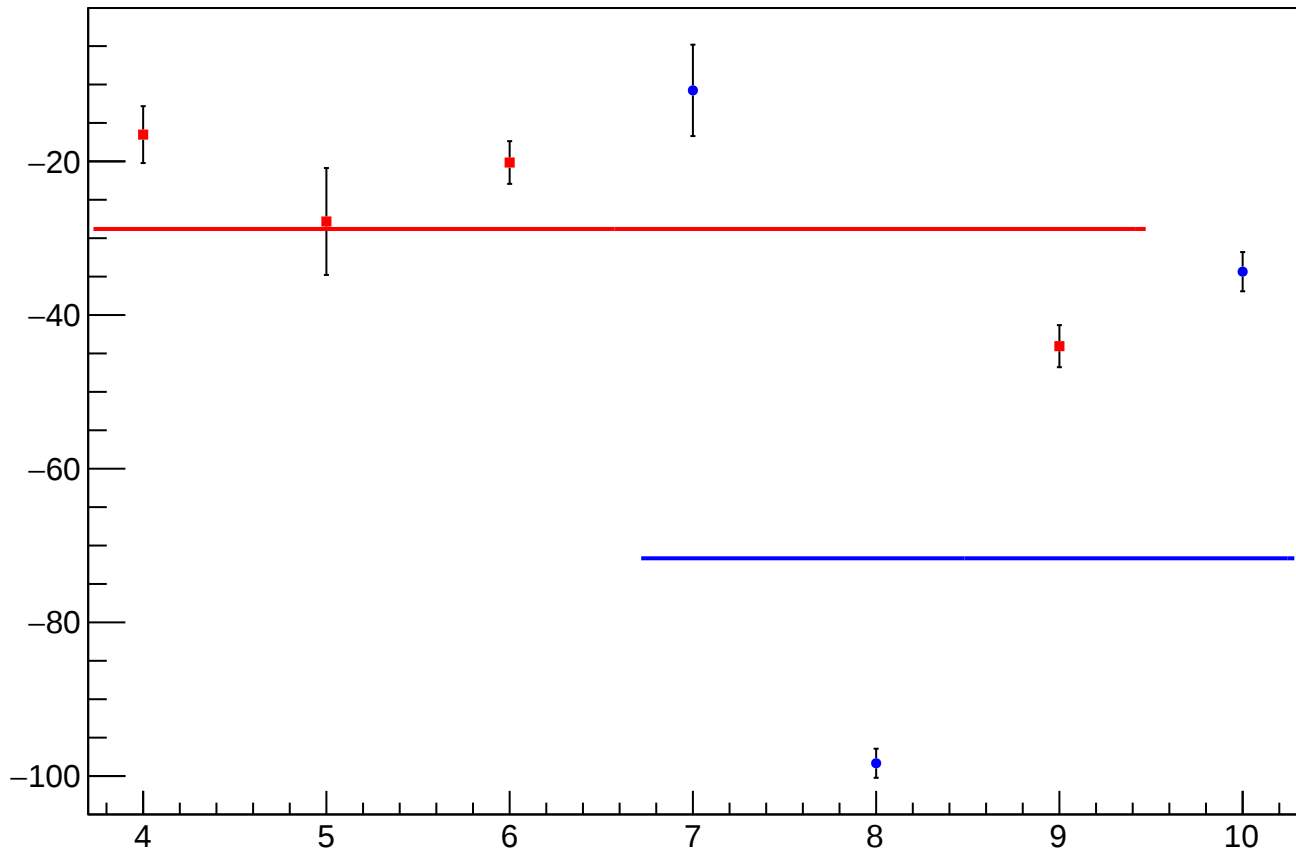
Right Out: 5475.752 $\pm$ 2.839  $\chi^2$ /NDF: 184.5/3

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

5576.792 $\pm$ 2.781  $\chi^2$ /NDF: 637.6/2

5475.752 $\pm$ 2.839  $\chi^2$ /NDF: 184.5/3

diff\_bpm0l03Y\_mean vs slug



Right In: -71.661 $\pm$ 1.473  $\chi^2$ /NDF: 516.8/2

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

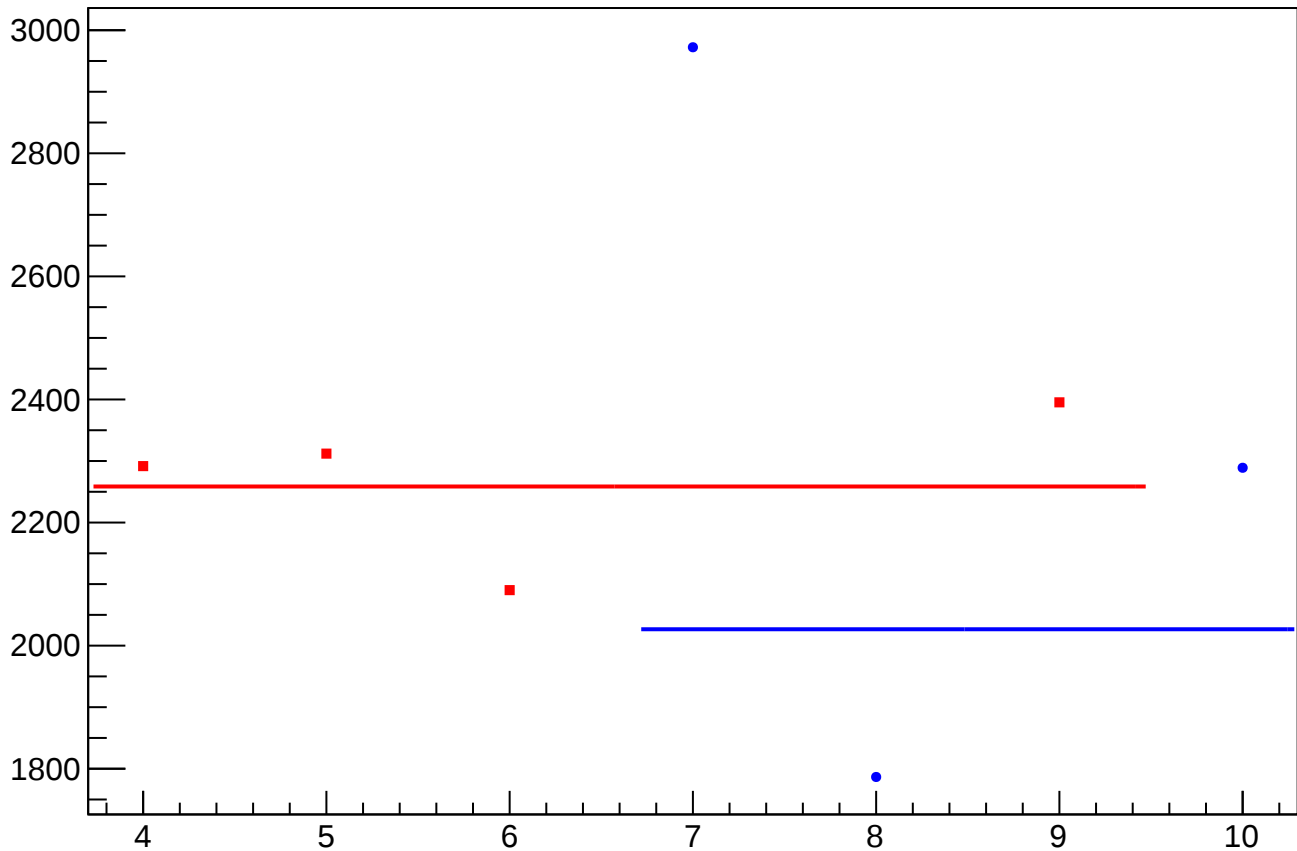
Right Out: -28.802 $\pm$ 1.675  $\chi^2$ /NDF: 51.7/3

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

-71.661 $\pm$ 1.473  $\chi^2$ /NDF: 516.8/2

-28.802 $\pm$ 1.675  $\chi^2$ /NDF: 51.7/3

# diff\_bpm0l03Y\_rms vs slug



Right In: 2026.617 $\pm$ 1.042  $\chi^2$ /NDF: 103845.6/2

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

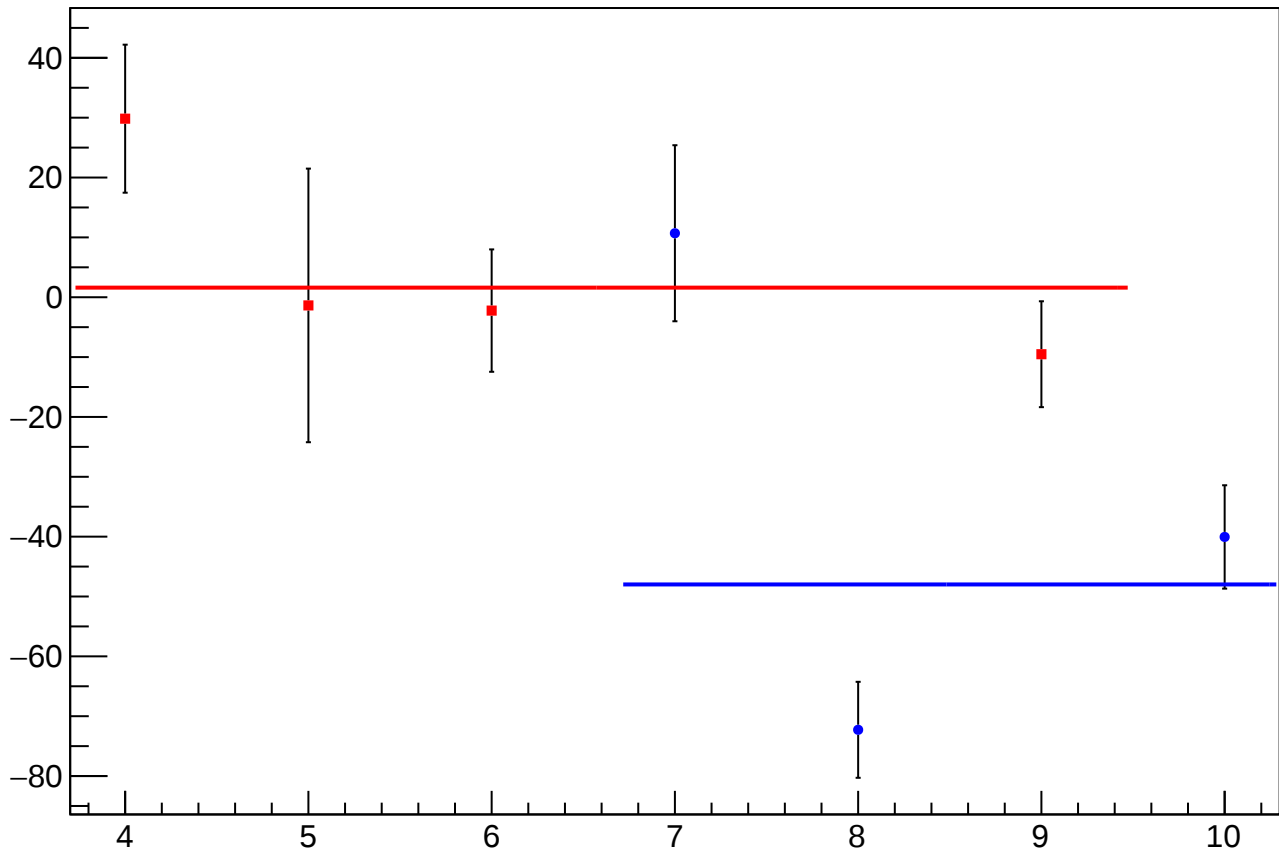
2026.617 $\pm$ 1.042  $\chi^2$ /NDF: 103845.6/2

Right Out: 2258.590 $\pm$ 1.185  $\chi^2$ /NDF: 12598.3/3

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

2258.590 $\pm$ 1.185  $\chi^2$ /NDF: 12598.3/3

# diff\_bpm0l04X\_mean vs slug



Right In: -47.986 $\pm$ 5.457  $\chi^2$ /NDF: 25.9/2

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

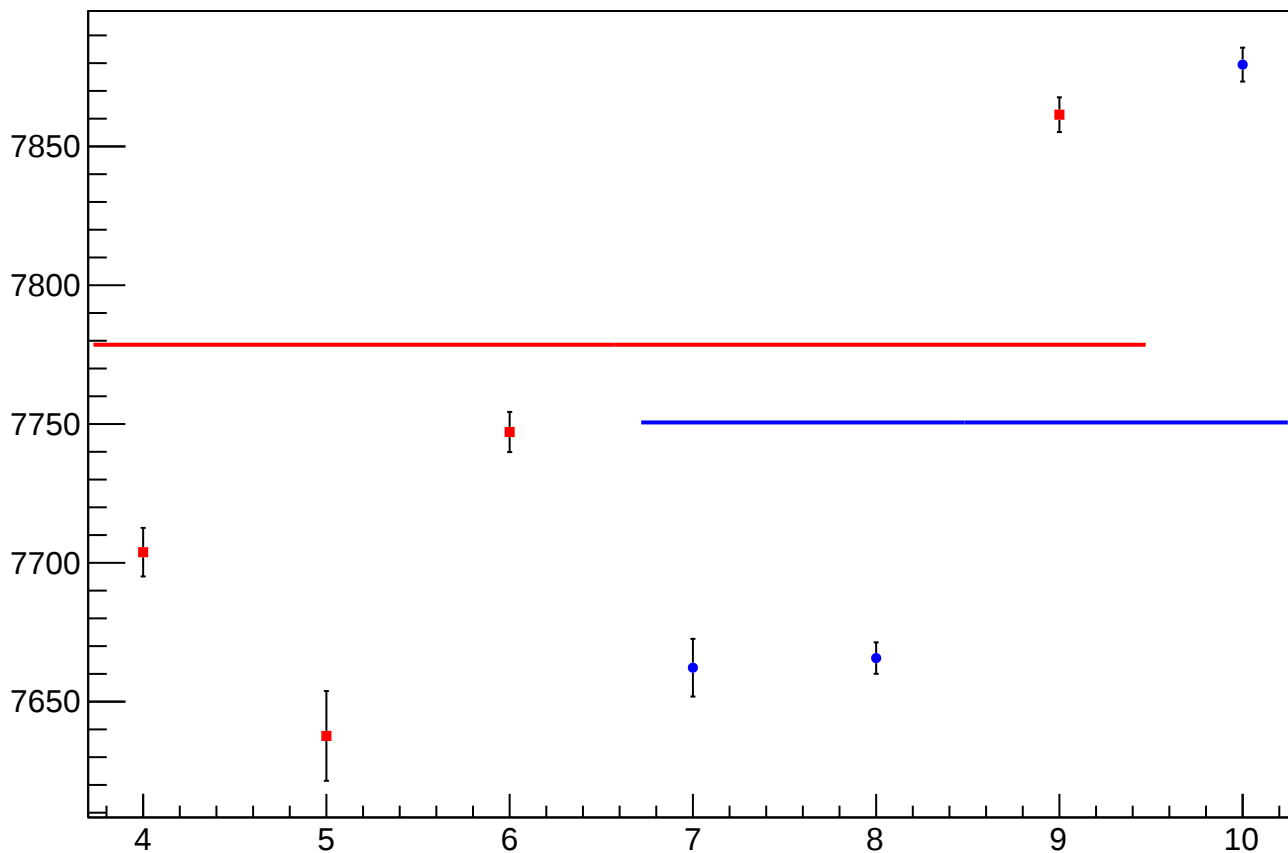
Right Out: 1.605 $\pm$ 5.698  $\chi^2$ /NDF: 6.9/3

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

-47.986 $\pm$ 5.457  $\chi^2$ /NDF: 25.9/2

1.605 $\pm$ 5.698  $\chi^2$ /NDF: 6.9/3

# diff\_bpm0l04X\_rms vs slug



Right In: 7750.570+/-3.858  $\chi^2/\text{NDF}$ : 741.8/2

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

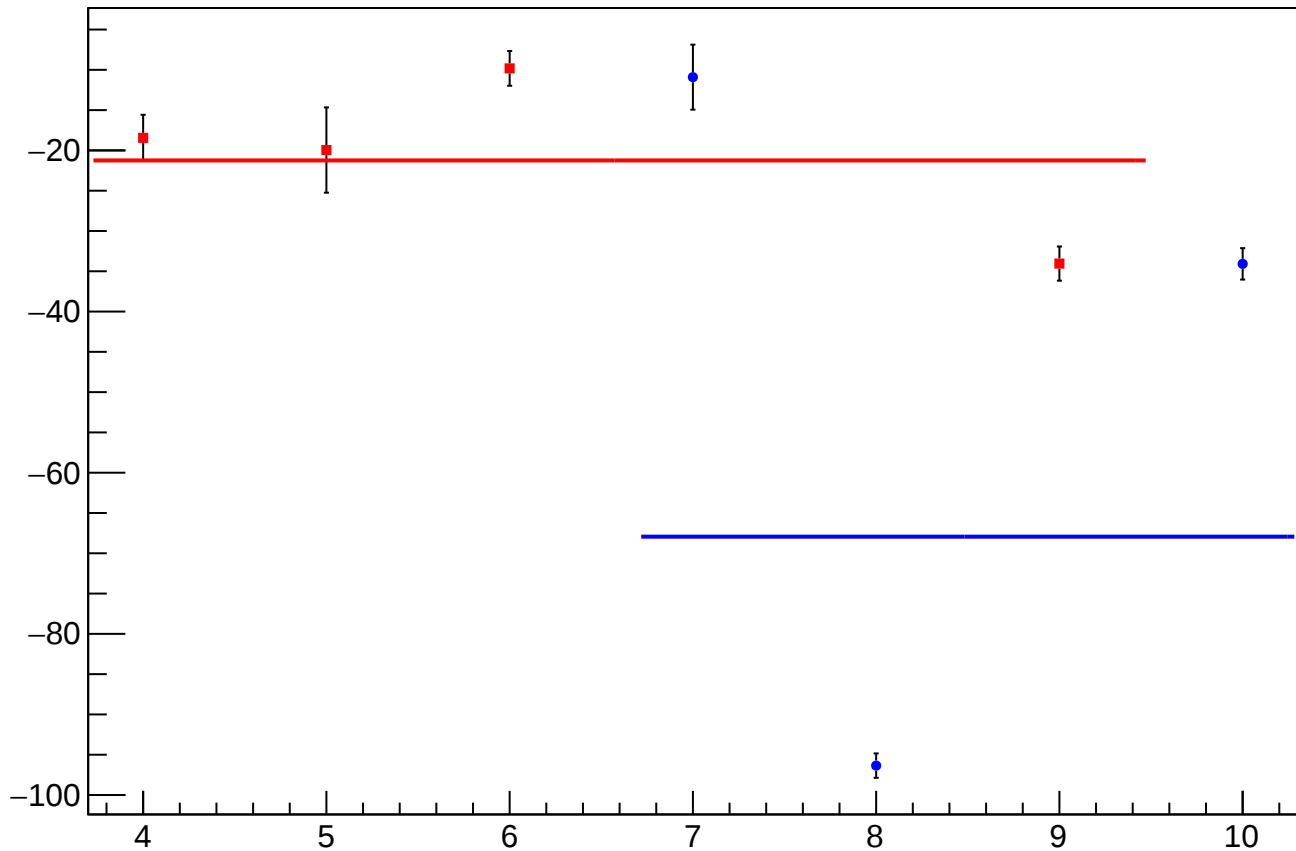
Right Out: 7778.566+/-4.029  $\chi^2/\text{NDF}$ : 343.5/3

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

7750.570+/-3.858  $\chi^2/\text{NDF}$ : 741.8/2

7778.566+/-4.029  $\chi^2/\text{NDF}$ : 343.5/3

# diff\_bpm0l04Y\_mean vs slug



Right In: -67.937 $\pm$ 1.146  $\chi^2$ /NDF: 854.2/2

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

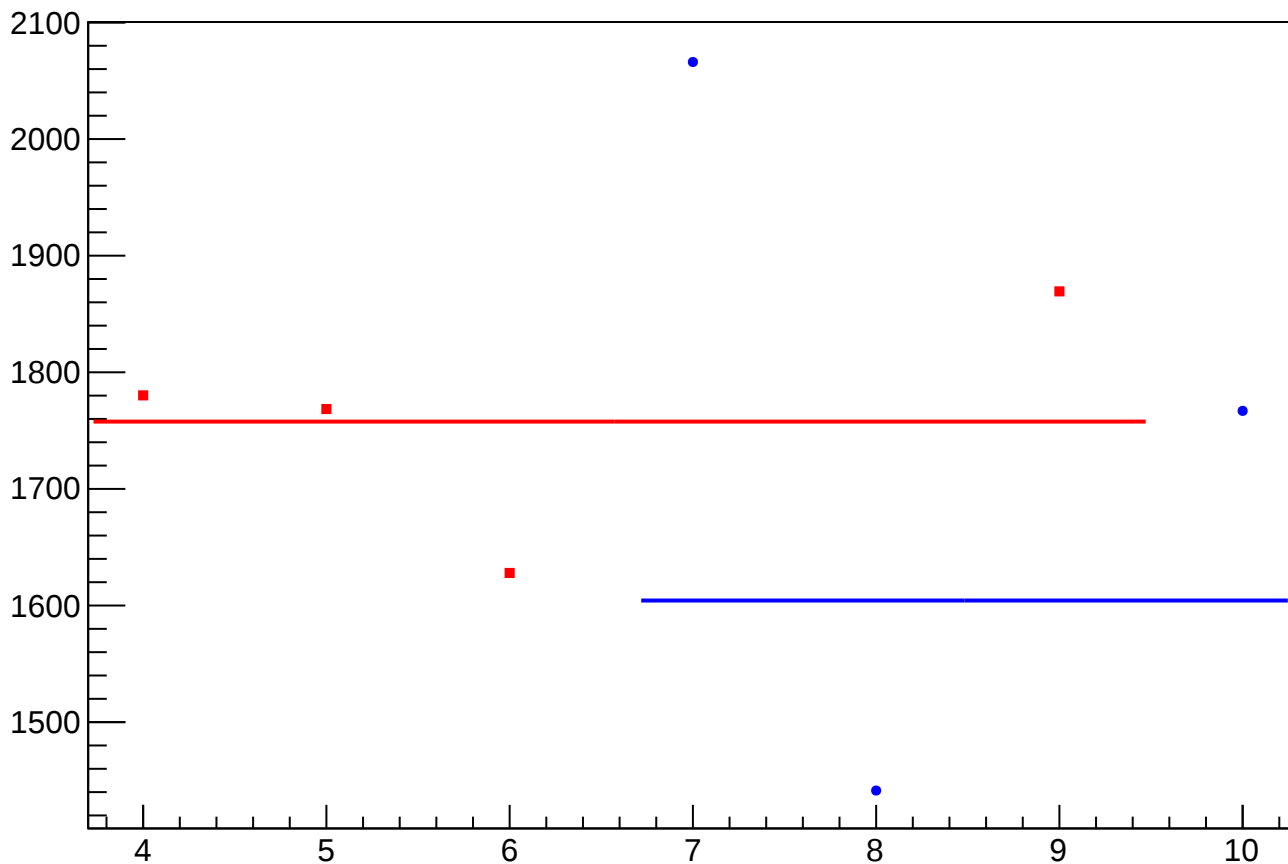
-67.937 $\pm$ 1.146  $\chi^2$ /NDF: 854.2/2

Right Out: -21.244 $\pm$ 1.296  $\chi^2$ /NDF: 65.5/3

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

-21.244 $\pm$ 1.296  $\chi^2$ /NDF: 65.5/3

# diff\_bpm0l04Y\_rms vs slug



Right In: 1604.293+/-0.810  $\chi^2/\text{NDF}$ : 63347.3/2

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

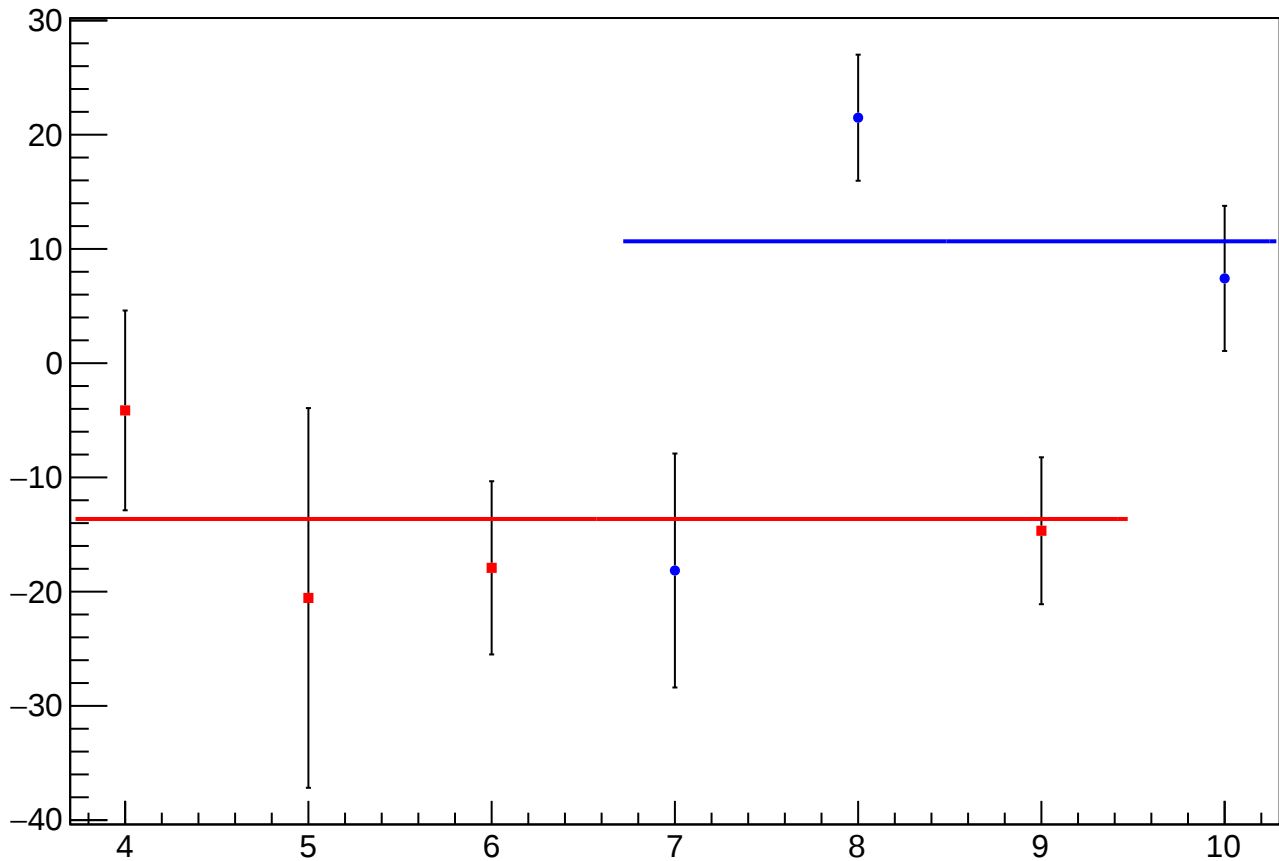
Right Out: 1757.730+/-0.917  $\chi^2/\text{NDF}$ : 12931.7/3

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

1604.293+/-0.810  $\chi^2/\text{NDF}$ : 63347.3/2

1757.730+/-0.917  $\chi^2/\text{NDF}$ : 12931.7/3

# diff\_bpm0l05X\_mean vs slug



Right In:  $10.668 \pm 3.858$   $\chi^2/\text{NDF}: 12.0/2$

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

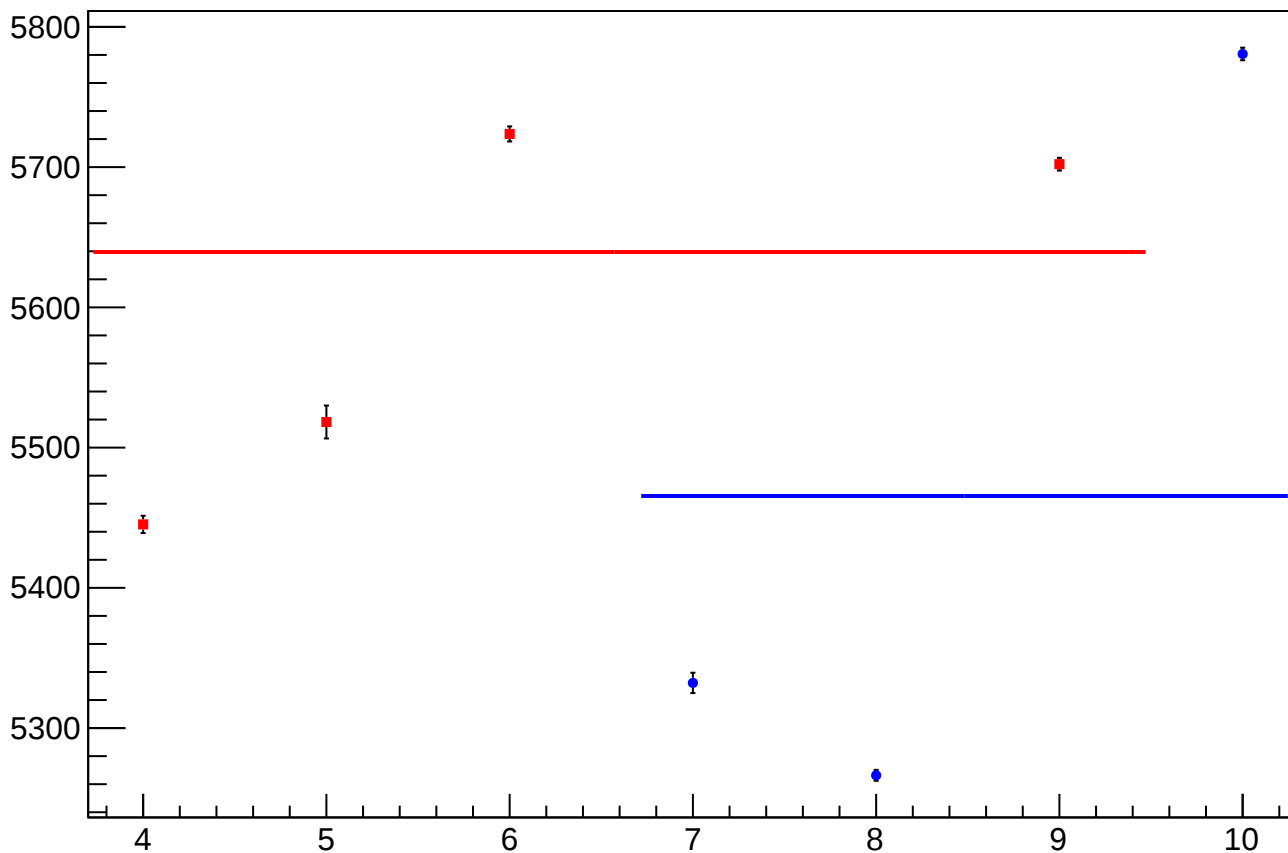
Right Out:  $-13.639 \pm 4.142$   $\chi^2/\text{NDF}: 1.7/3$

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

$10.668 \pm 3.858$   $\chi^2/\text{NDF}: 12.0/2$

$-13.639 \pm 4.142$   $\chi^2/\text{NDF}: 1.7/3$

# diff\_bpm0l05X\_rms vs slug



Right In: 5465.511+/-2.728  $\chi^2/\text{NDF}$ : 7870.0/2

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

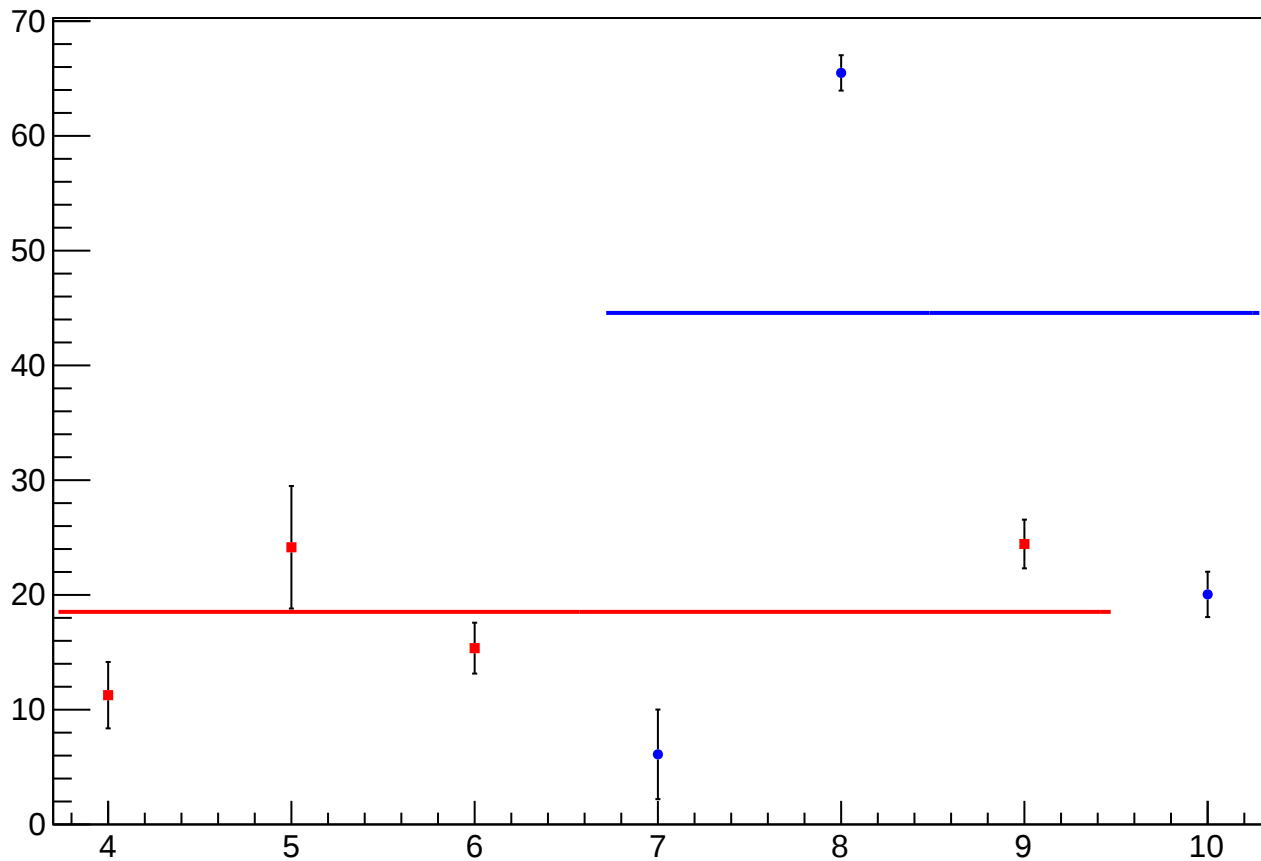
Right Out: 5639.469+/-2.929  $\chi^2/\text{NDF}$ : 1529.9/3

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

5465.511+/-2.728  $\chi^2/\text{NDF}$ : 7870.0/2

5639.469+/-2.929  $\chi^2/\text{NDF}$ : 1529.9/3

diff\_bpm0l05Y\_mean vs slug



Right In: 44.573+/-1.161  $\chi^2$ /NDF: 435.1/2

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

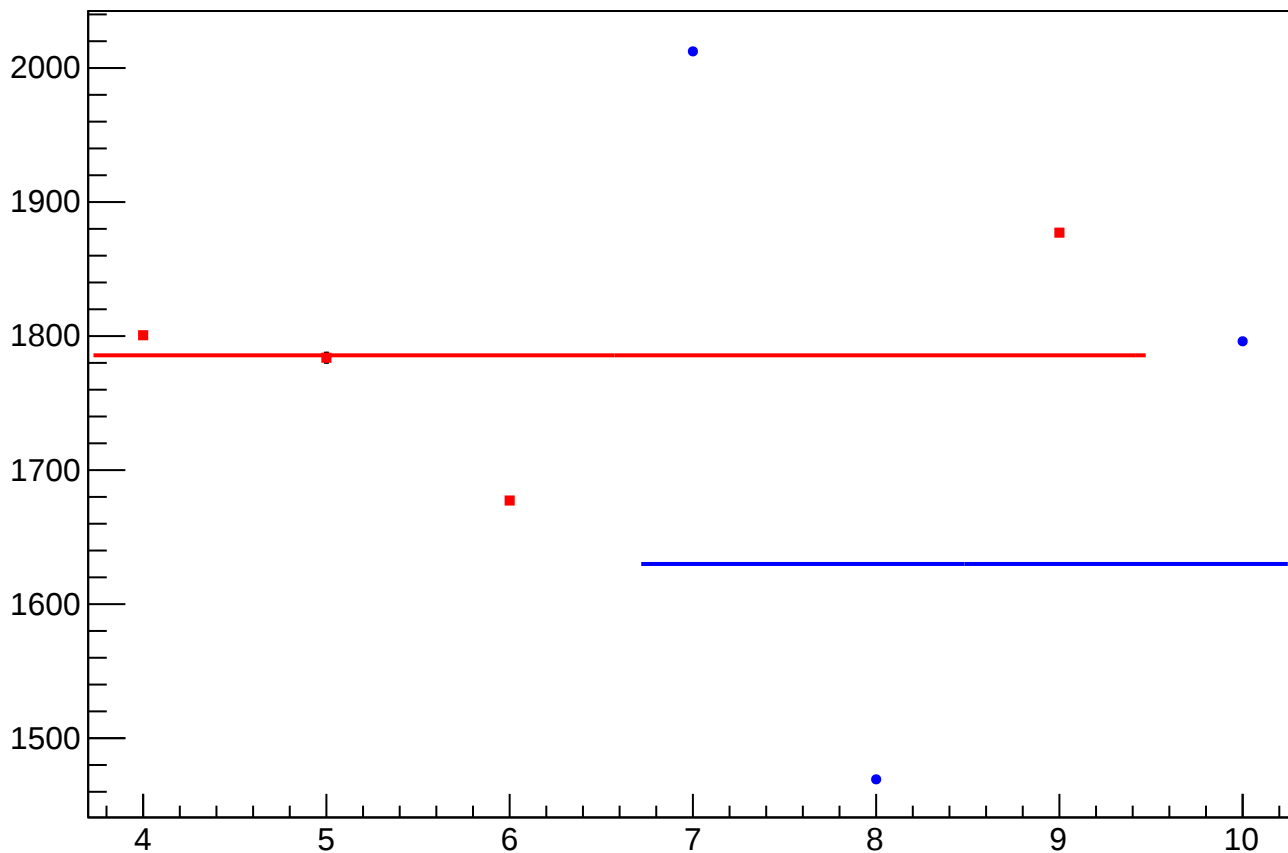
Right Out: 18.524+/-1.313  $\chi^2$ /NDF: 17.2/3

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

44.573+/-1.161  $\chi^2$ /NDF: 435.1/2

18.524+/-1.313  $\chi^2$ /NDF: 17.2/3

# diff\_bpm0l05Y\_rms vs slug



Right In: 1629.977+/-0.821  $\chi^2/\text{NDF}$ : 55058.9/2

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

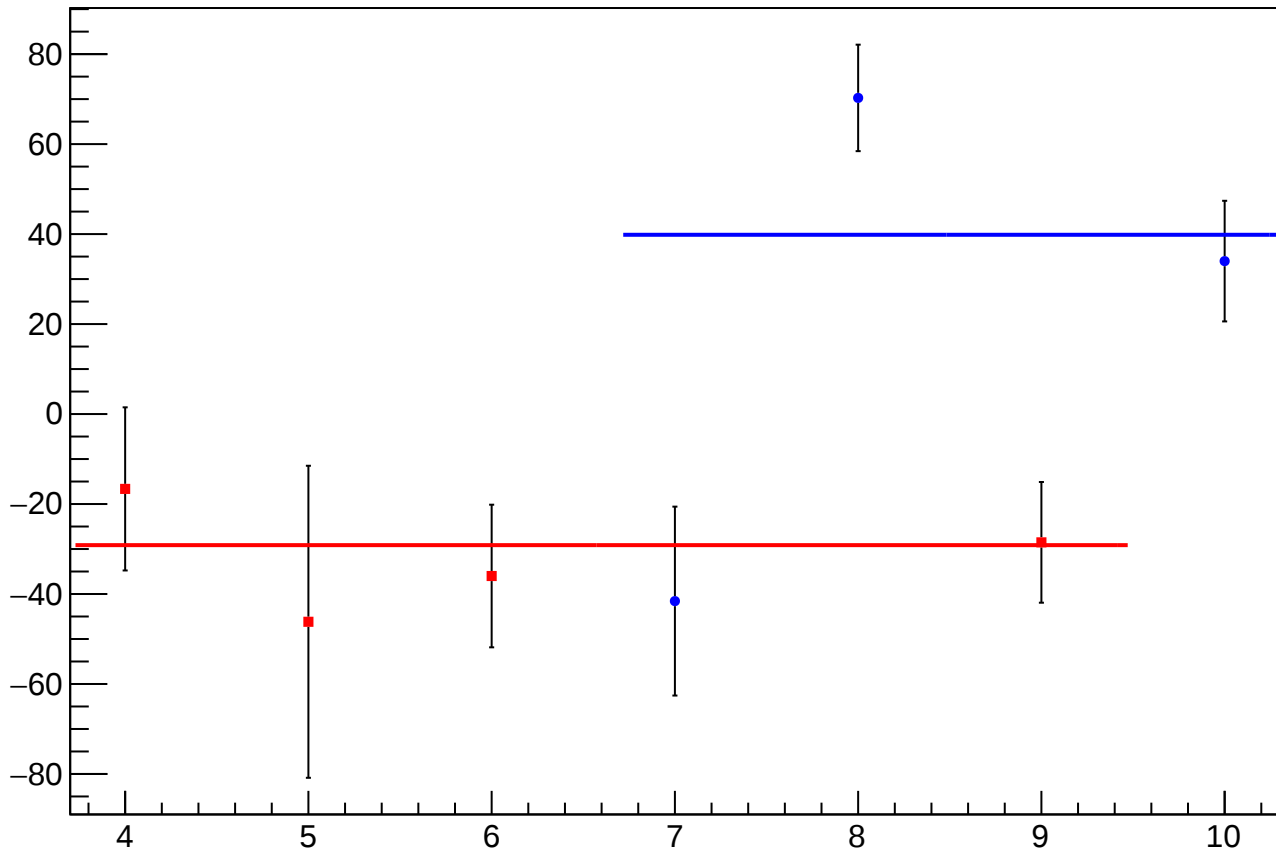
Right Out: 1785.649+/-0.929  $\chi^2/\text{NDF}$ : 8544.1/3

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

1629.977+/-0.821  $\chi^2/\text{NDF}$ : 55058.9/2

1785.649+/-0.929  $\chi^2/\text{NDF}$ : 8544.1/3

diff\_bpm0l06X\_mean vs slug



Right In: 39.844+/-8.171  $\chi^2$ /NDF: 21.8/2

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

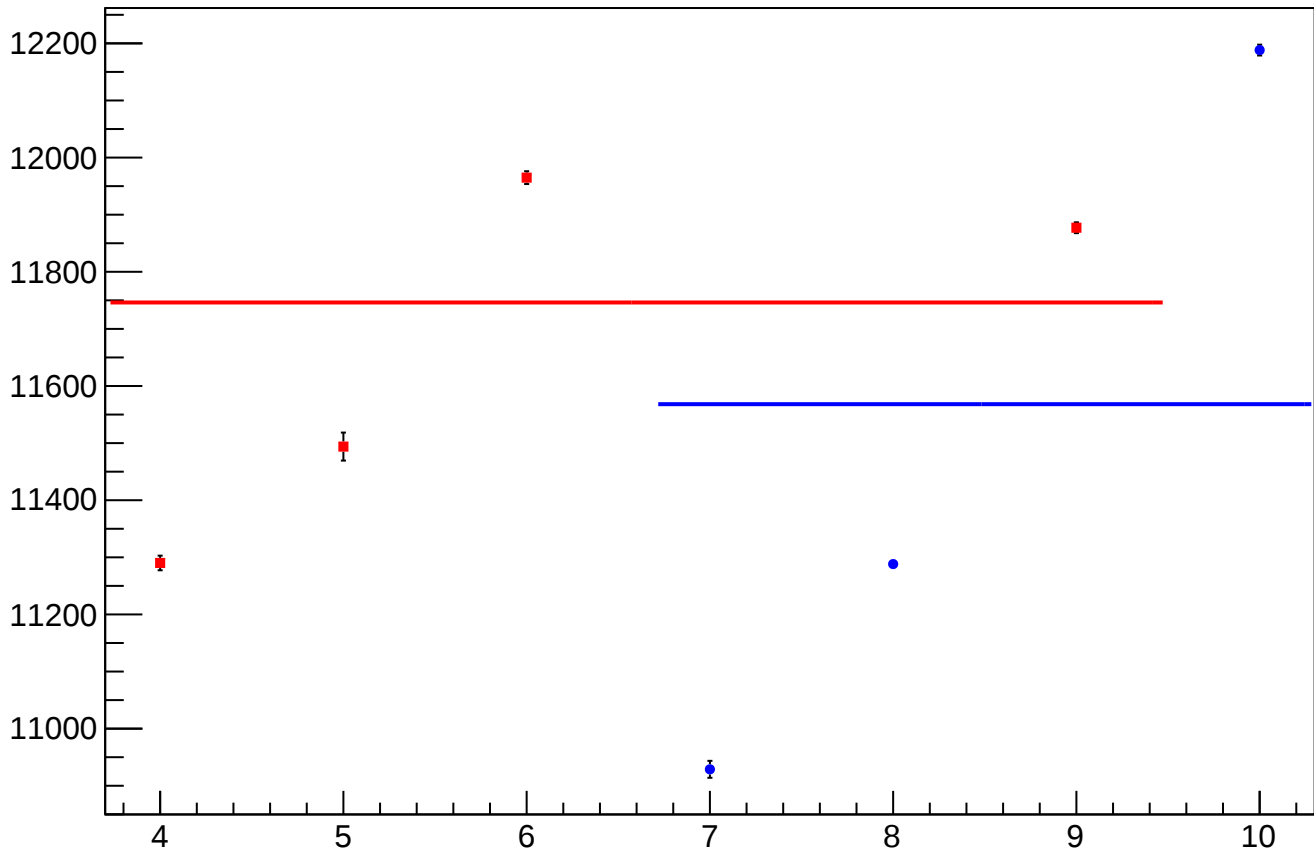
39.844+/-8.171  $\chi^2$ /NDF: 21.8/2

Right Out: -29.139+/-8.635  $\chi^2$ /NDF: 0.9/3

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

-29.139+/-8.635  $\chi^2$ /NDF: 0.9/3

# diff\_bpm0l06X\_rms vs slug



Right In: 11568.189+/-5.778  $\chi^2/\text{NDF}$ : 7254.0/2

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

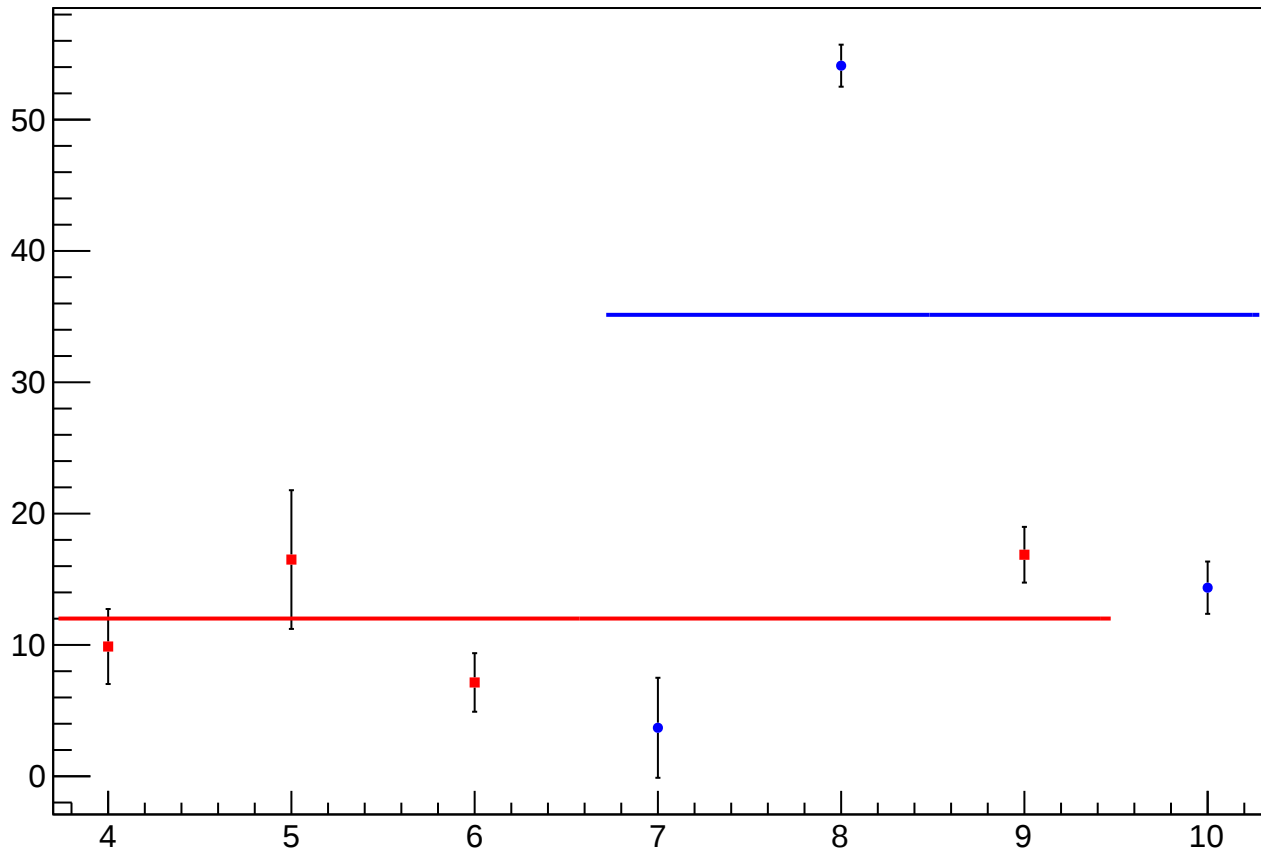
11568.189+/-5.778  $\chi^2/\text{NDF}$ : 7254.0/2

Right Out: 11746.273+/-6.106  $\chi^2/\text{NDF}$ : 1942.7/3

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

11746.273+/-6.106  $\chi^2/\text{NDF}$ : 1942.7/3

# diff\_bpm0l06Y\_mean vs slug



Right In: 35.137+/-1.186  $\chi^2$ /NDF: 317.5/2

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

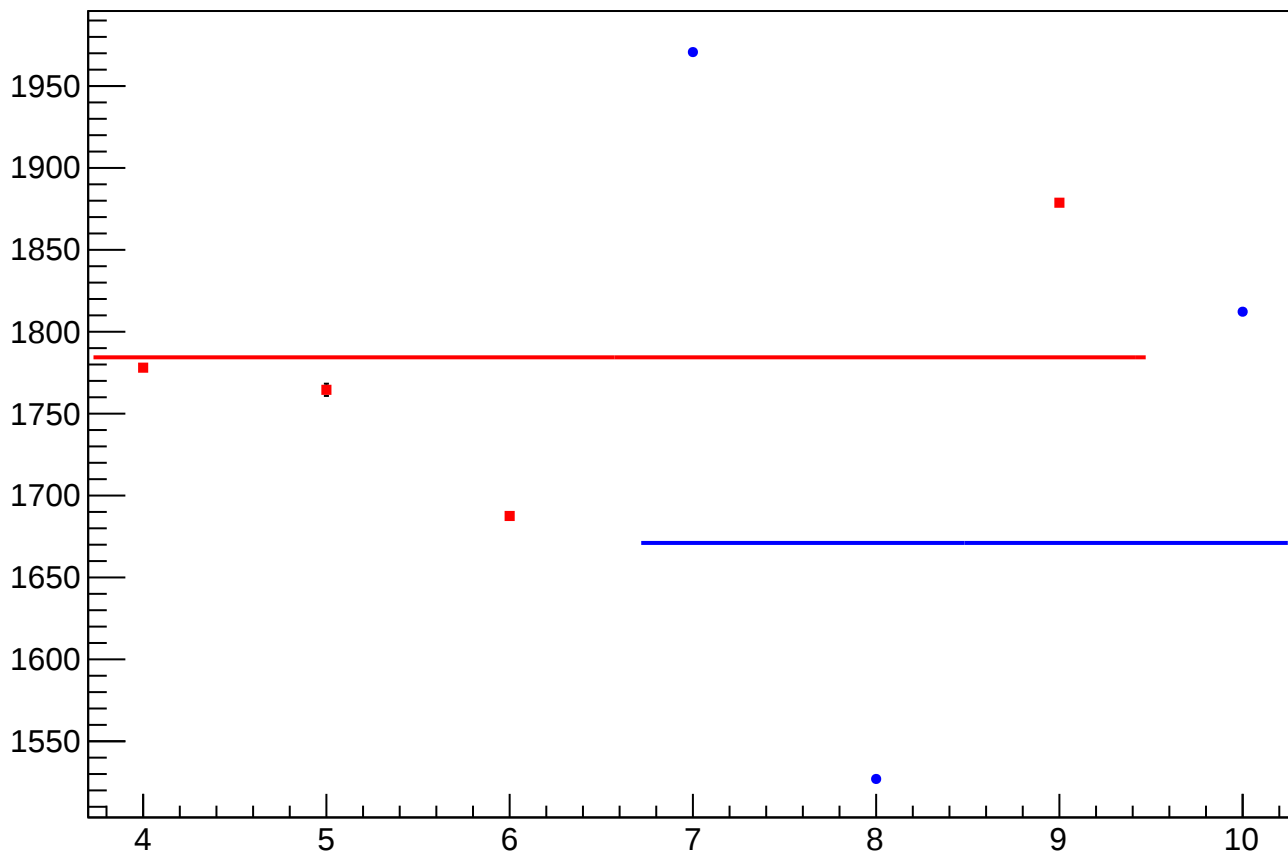
Right Out: 12.010+/-1.311  $\chi^2$ /NDF: 11.3/3

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

35.137+/-1.186  $\chi^2$ /NDF: 317.5/2

12.010+/-1.311  $\chi^2$ /NDF: 11.3/3

# diff\_bpm0l06Y\_rms vs slug



Right In: 1671.078+/-0.838  $\chi^2/\text{NDF}$ : 38642.8/2

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

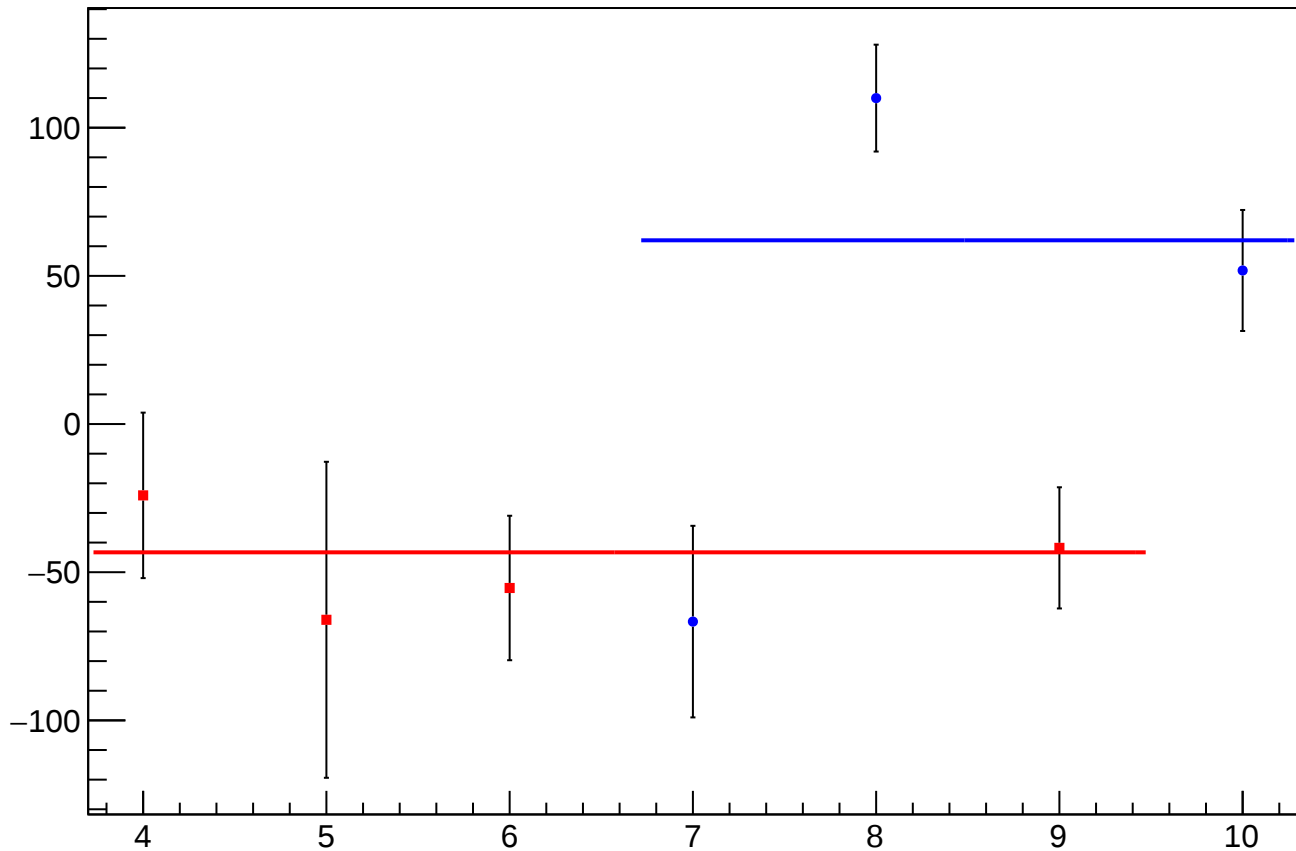
Right Out: 1784.384+/-0.927  $\chi^2/\text{NDF}$ : 7769.5/3

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

1671.078+/-0.838  $\chi^2/\text{NDF}$ : 38642.8/2

1784.384+/-0.927  $\chi^2/\text{NDF}$ : 7769.5/3

diff\_bpm0l07X\_mean vs slug



Right In: 62.002 $\pm$ 12.470  $\chi^2$ /NDF: 23.2/2

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

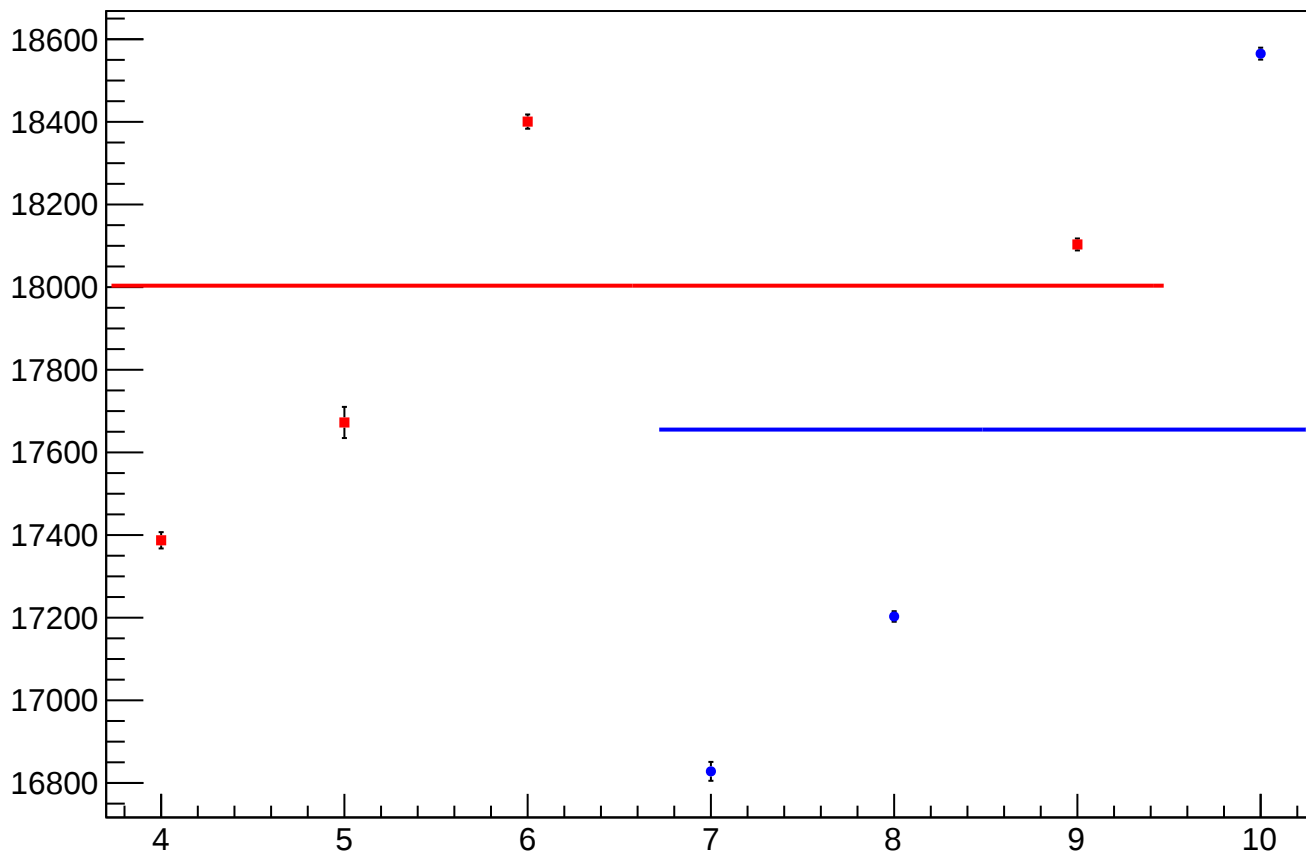
Right Out: -43.293 $\pm$ 13.234  $\chi^2$ /NDF: 0.9/3

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

62.002 $\pm$ 12.470  $\chi^2$ /NDF: 23.2/2

-43.293 $\pm$ 13.234  $\chi^2$ /NDF: 0.9/3

# diff\_bpm0l07X\_rms vs slug



Right In: 17655.251+/-8.817  $\chi^2/\text{NDF}$ : 6539.6/2

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

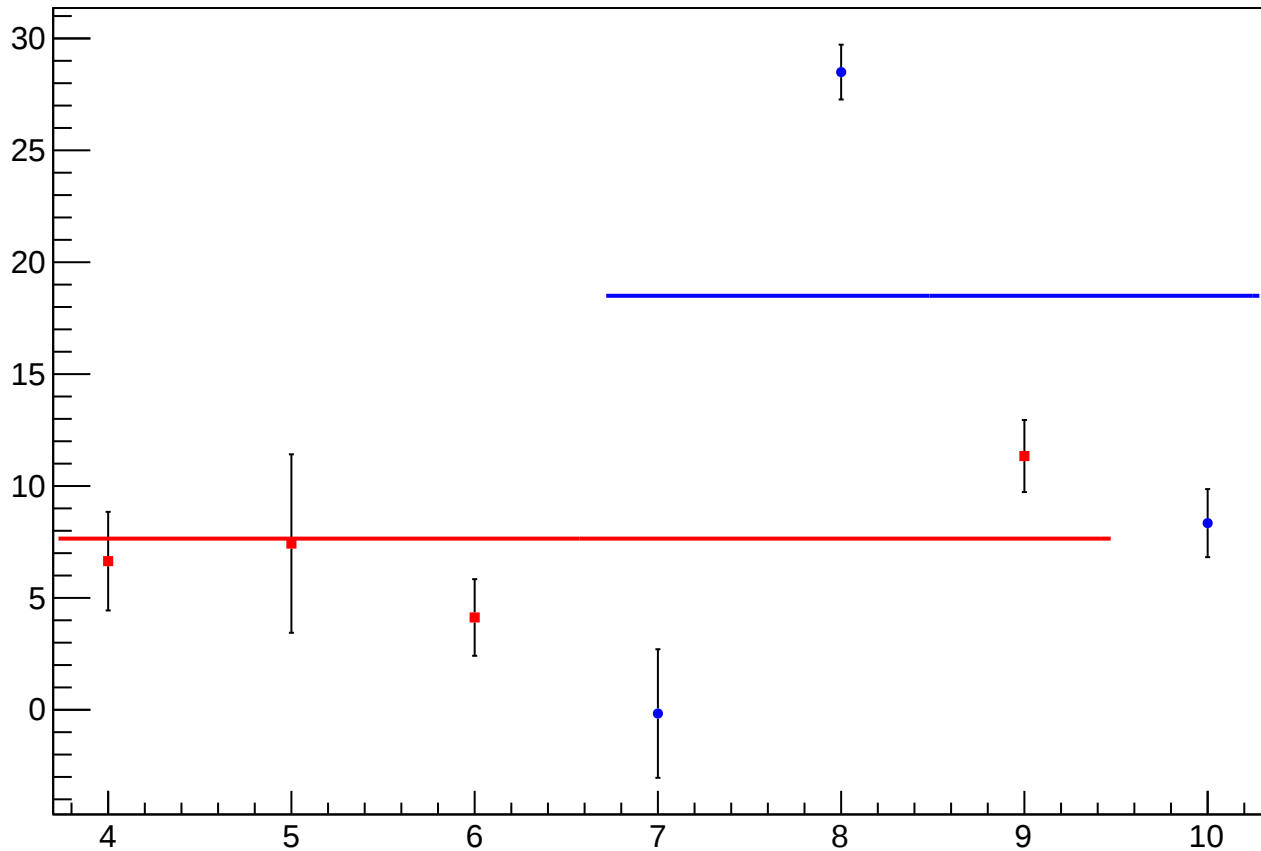
Right Out: 18003.539+/-9.358  $\chi^2/\text{NDF}$ : 1629.7/3

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

17655.251+/-8.817  $\chi^2/\text{NDF}$ : 6539.6/2

18003.539+/-9.358  $\chi^2/\text{NDF}$ : 1629.7/3

diff\_bpm0l07Y\_mean vs slug



Right In: 18.500+/-0.905  $\chi^2$ /NDF: 153.4/2

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

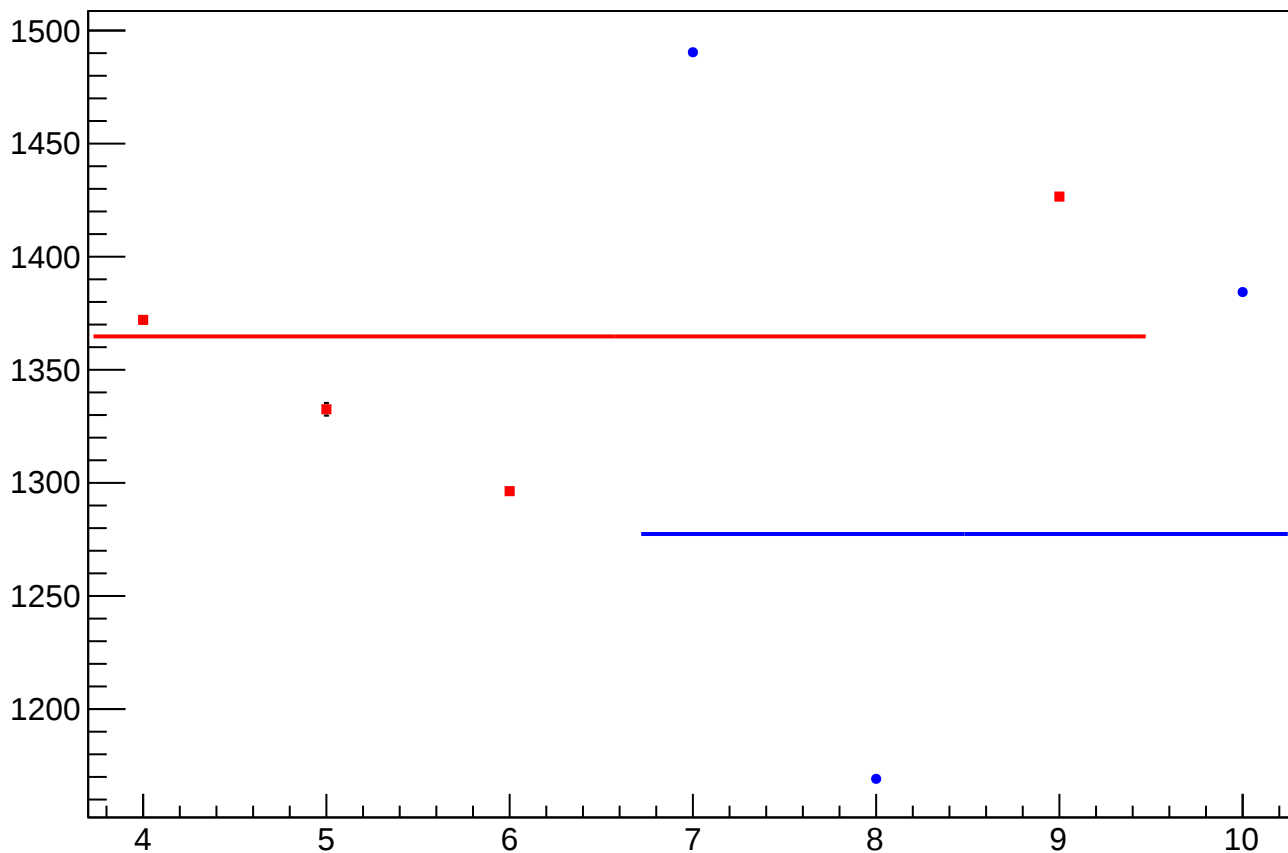
Right Out: 7.650+/-1.002  $\chi^2$ /NDF: 9.7/3

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

18.500+/-0.905  $\chi^2$ /NDF: 153.4/2

7.650+/-1.002  $\chi^2$ /NDF: 9.7/3

# diff\_bpm0l07Y\_rms vs slug



Right In: 1277.403+/-0.640  $\chi^2/\text{NDF}$ : 36508.2/2

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

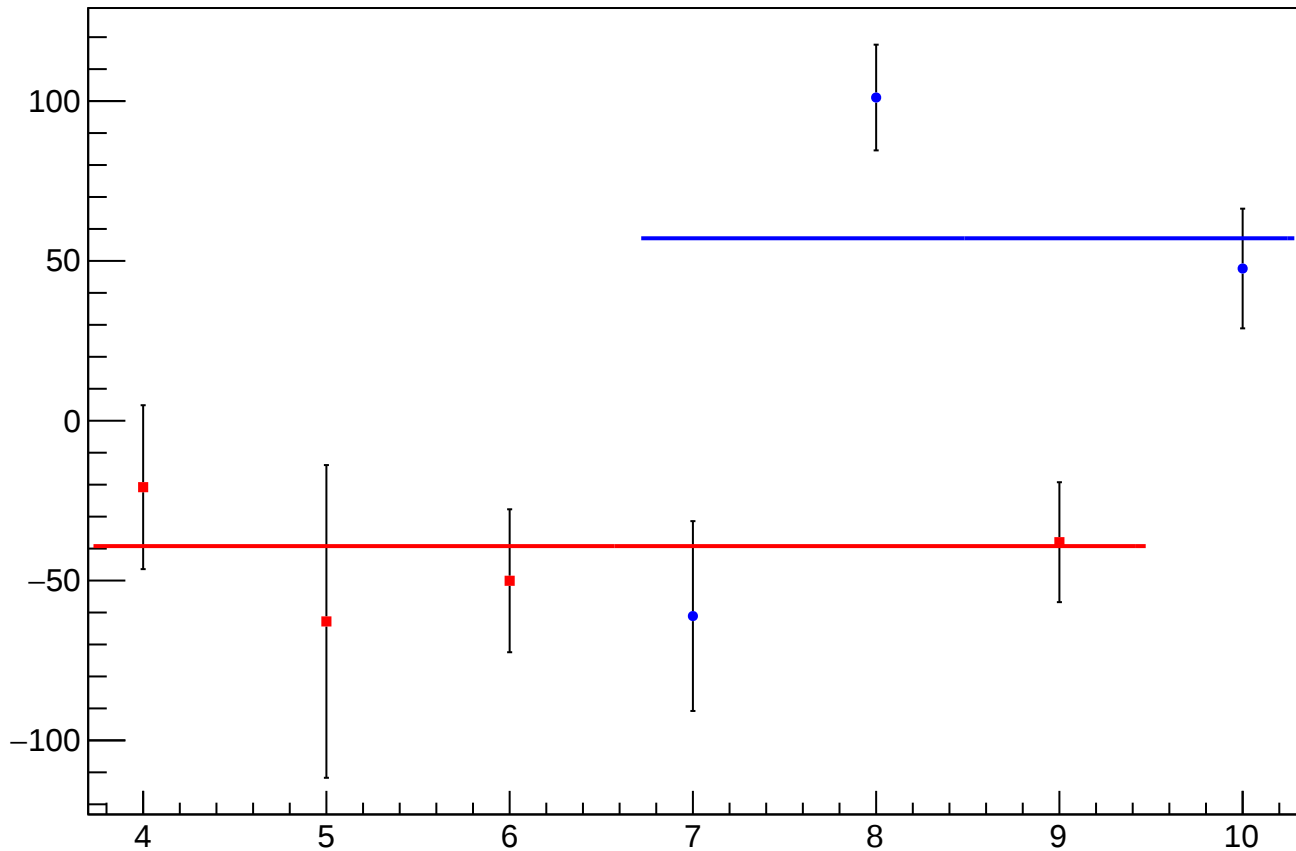
Right Out: 1364.762+/-0.709  $\chi^2/\text{NDF}$ : 6293.0/3

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

1277.403+/-0.640  $\chi^2/\text{NDF}$ : 36508.2/2

1364.762+/-0.709  $\chi^2/\text{NDF}$ : 6293.0/3

diff\_bpm0l08X\_mean vs slug



Right In: 57.080+/-11.438  $\chi^2/\text{NDF}$ : 23.2/2

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

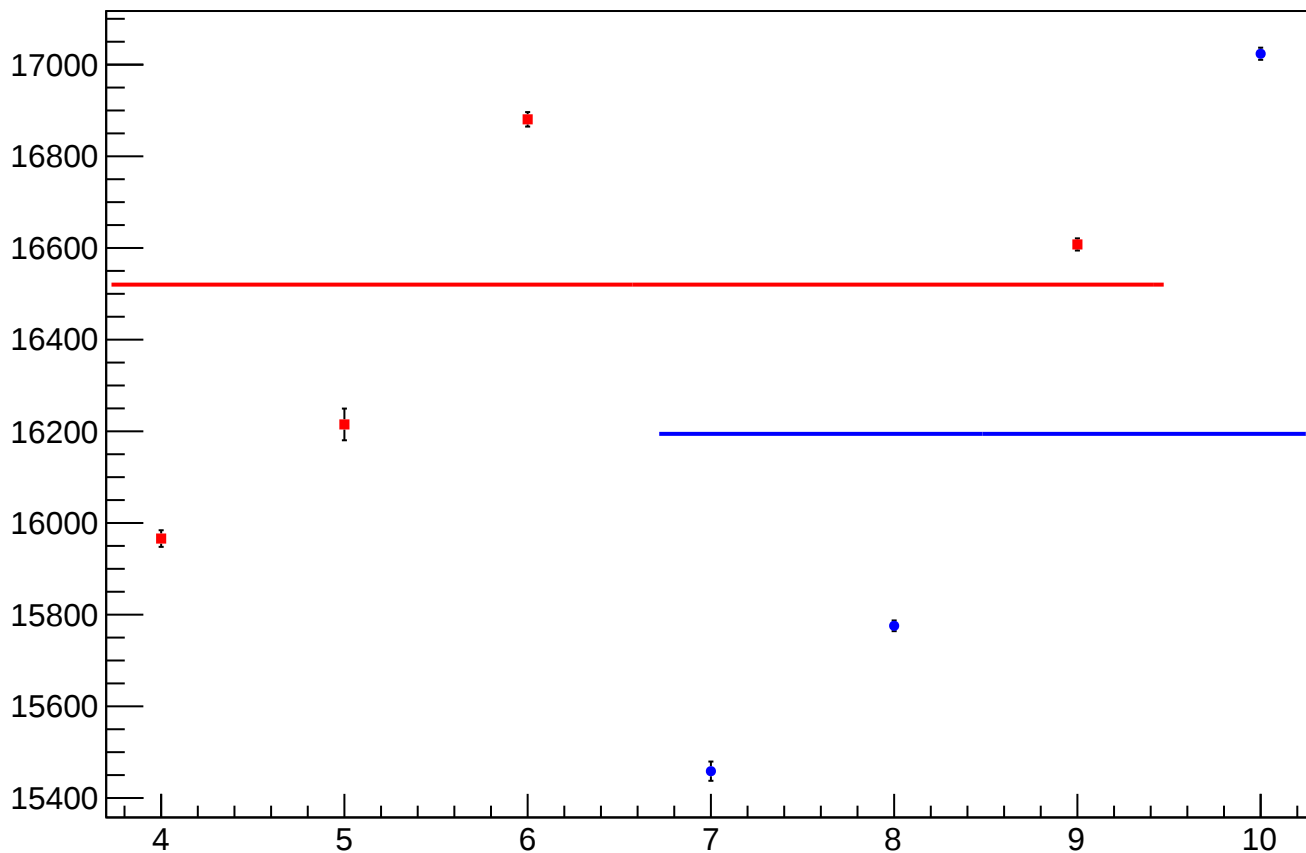
Right Out: -39.222+/-12.143  $\chi^2/\text{NDF}$ : 1.0/3

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

57.080+/-11.438  $\chi^2/\text{NDF}$ : 23.2/2

-39.222+/-12.143  $\chi^2/\text{NDF}$ : 1.0/3

# diff\_bpm0l08X\_rms vs slug



Right In: 16194.463+/-8.088  $\chi^2/\text{NDF}$ : 6435.5/2

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

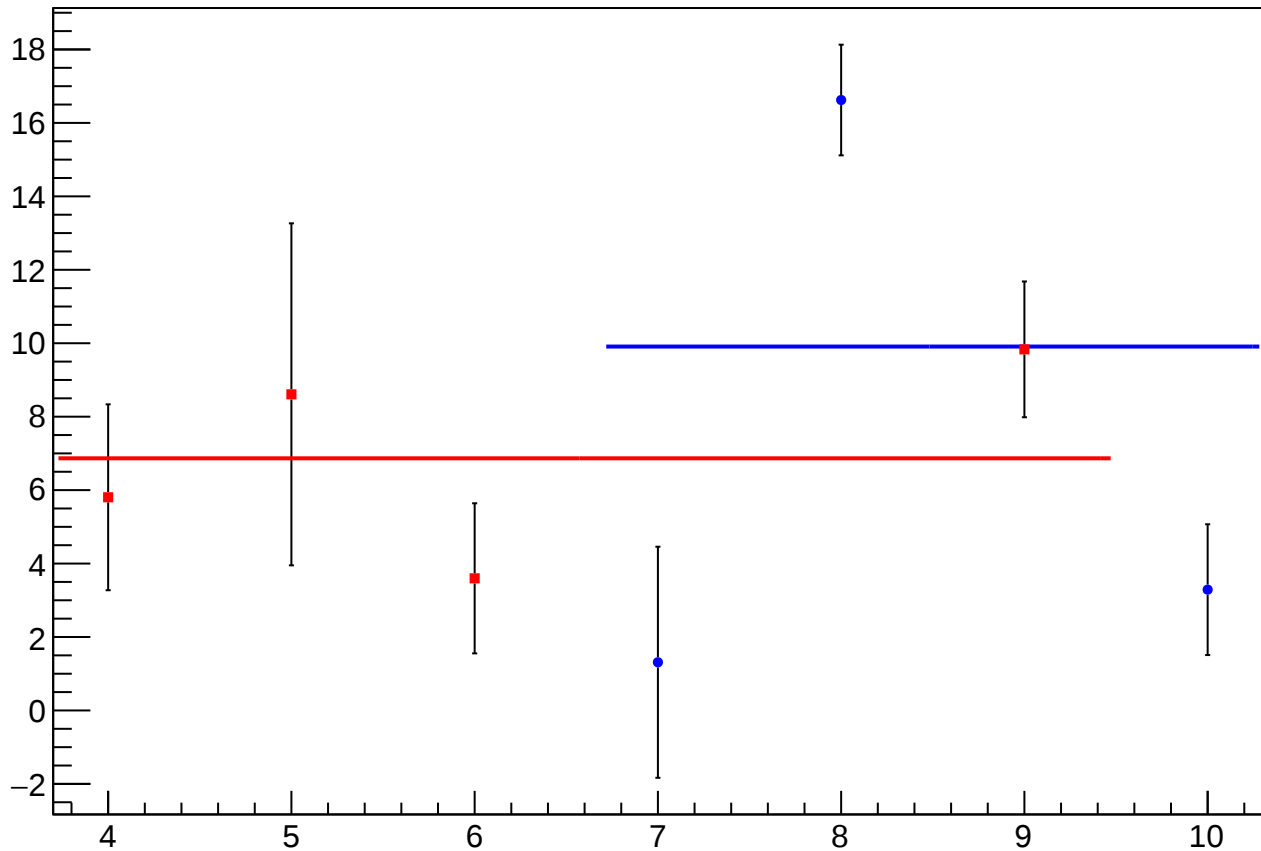
Right Out: 16520.070+/-8.587  $\chi^2/\text{NDF}$ : 1575.5/3

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

16194.463+/-8.088  $\chi^2/\text{NDF}$ : 6435.5/2

16520.070+/-8.587  $\chi^2/\text{NDF}$ : 1575.5/3

diff\_bpm0l08Y\_mean vs slug



Right In: 9.910 $\pm$ 1.080  $\chi^2$ /NDF: 41.1/2

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

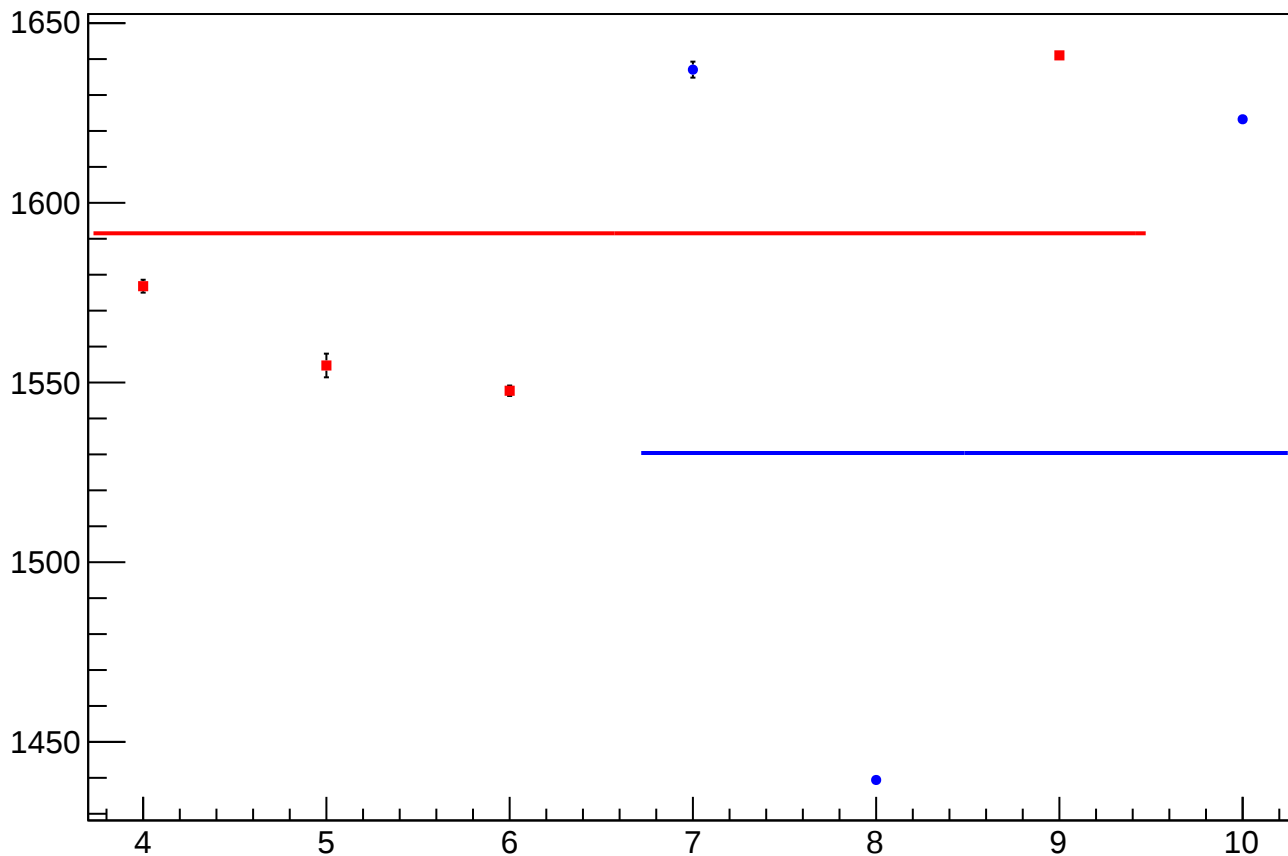
Right Out: 6.866 $\pm$ 1.167  $\chi^2$ /NDF: 5.4/3

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

9.910 $\pm$ 1.080  $\chi^2$ /NDF: 41.1/2

6.866 $\pm$ 1.167  $\chi^2$ /NDF: 5.4/3

# diff\_bpm0l08Y\_rms vs slug



Right In: 1530.390+/-0.764  $\chi^2/\text{NDF}$ : 15027.8/2

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

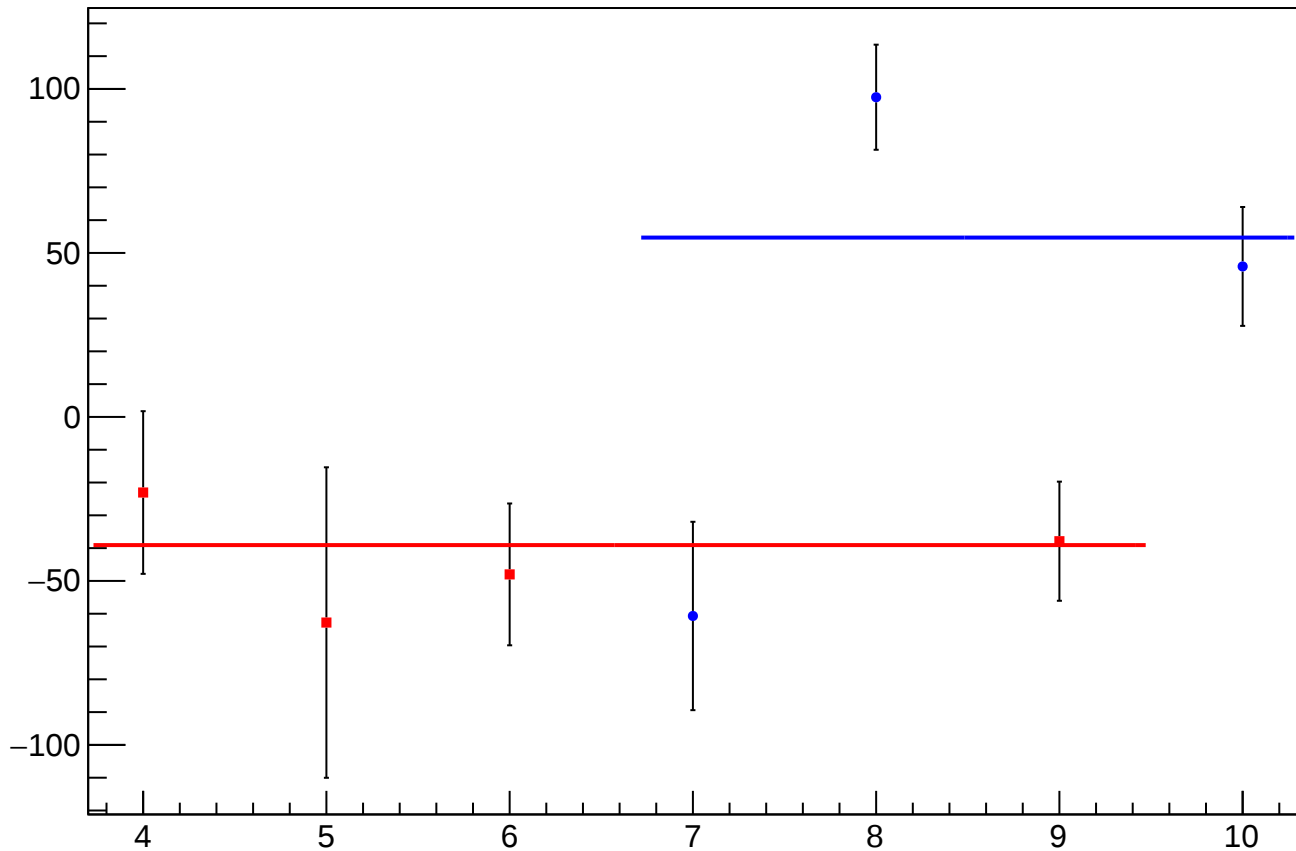
Right Out: 1591.523+/-0.825  $\chi^2/\text{NDF}$ : 2545.1/3

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

1530.390+/-0.764  $\chi^2/\text{NDF}$ : 15027.8/2

1591.523+/-0.825  $\chi^2/\text{NDF}$ : 2545.1/3

diff\_bpm0l09X\_mean vs slug



Right In: 54.685+/-11.075  $\chi^2/\text{NDF}$ : 23.5/2

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

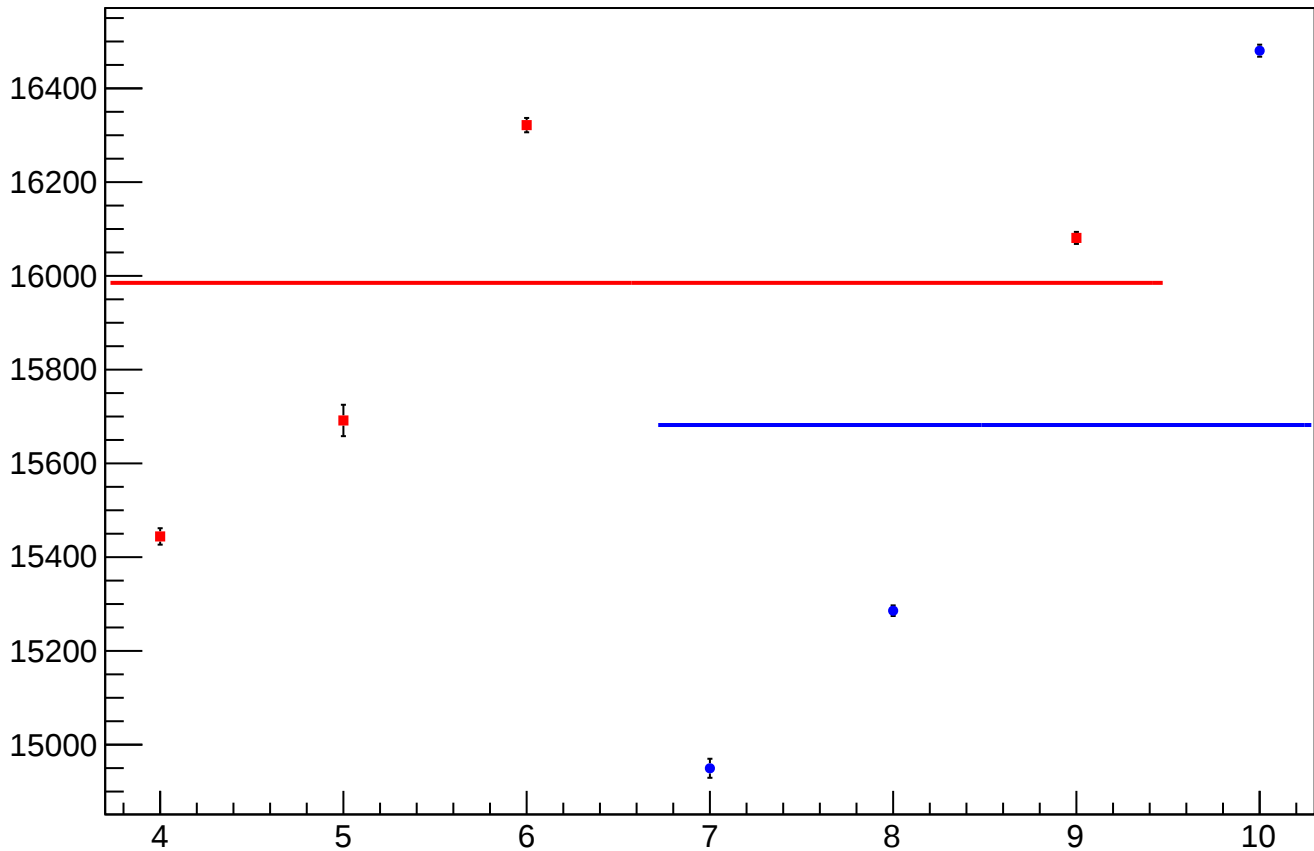
Right Out: -39.076+/-11.750  $\chi^2/\text{NDF}$ : 0.8/3

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

54.685+/-11.075  $\chi^2/\text{NDF}$ : 23.5/2

-39.076+/-11.750  $\chi^2/\text{NDF}$ : 0.8/3

# diff\_bpm0l09X\_rms vs slug



Right In: 15681.900+/-7.831  $\chi^2/\text{NDF}$ : 6405.0/2

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

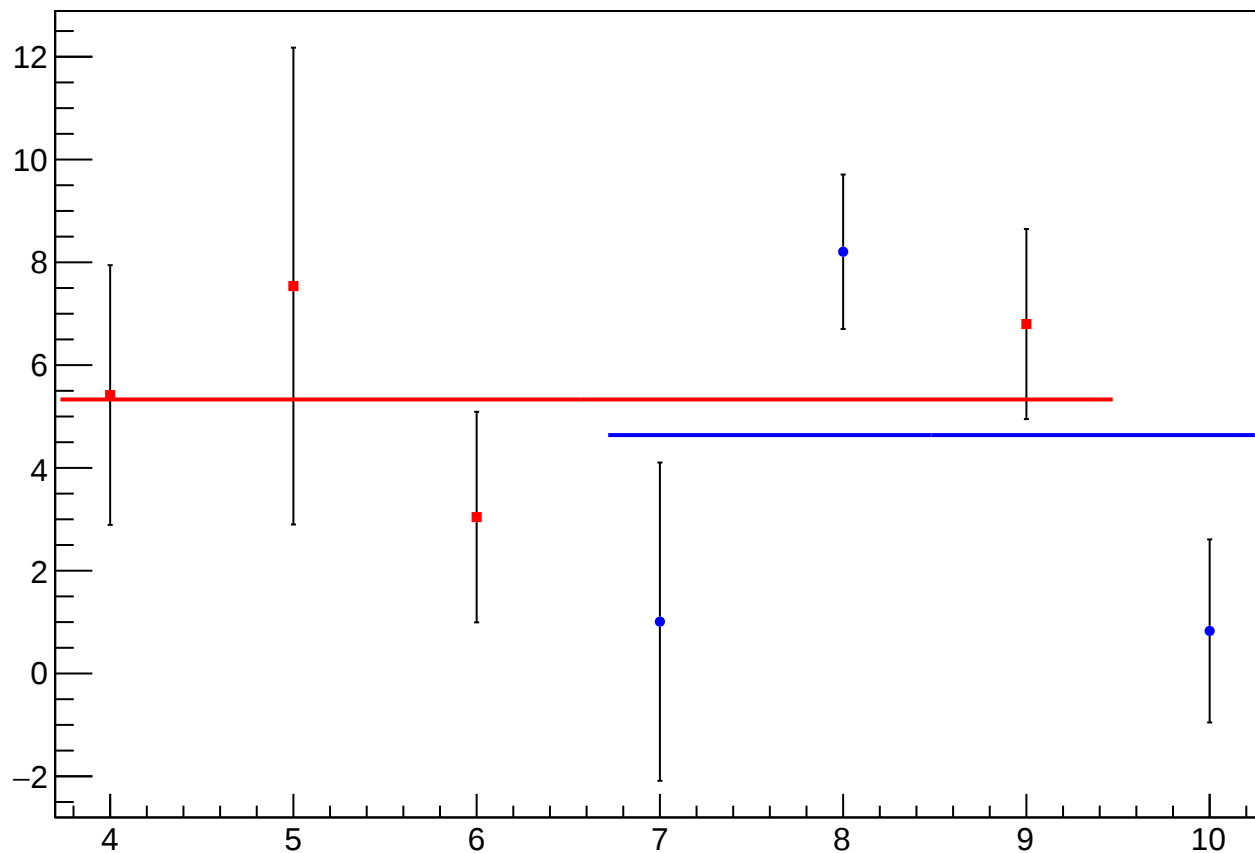
15681.900+/-7.831  $\chi^2/\text{NDF}$ : 6405.0/2

Right Out: 15985.120+/-8.308  $\chi^2/\text{NDF}$ : 1568.5/3

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

15985.120+/-8.308  $\chi^2/\text{NDF}$ : 1568.5/3

diff\_bpm0l09Y\_mean vs slug



Right In: 4.639 $\pm$ 1.077  $\chi^2$ /NDF: 11.6/2

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

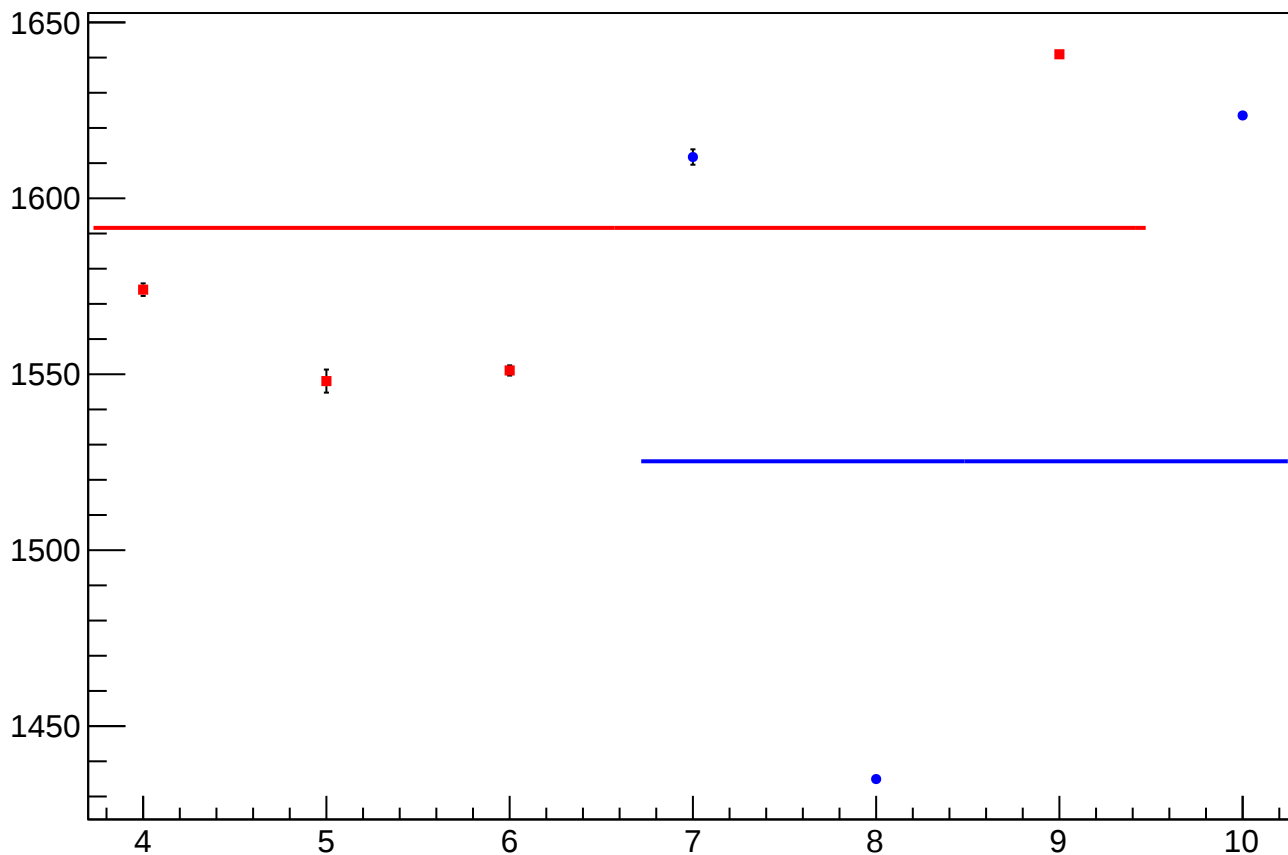
Right Out: 5.331 $\pm$ 1.167  $\chi^2$ /NDF: 2.1/3

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

4.639 $\pm$ 1.077  $\chi^2$ /NDF: 11.6/2

5.331 $\pm$ 1.167  $\chi^2$ /NDF: 2.1/3

# diff\_bpm0l09Y\_rms vs slug



Right In: 1525.267 $\pm$ 0.761  $\chi^2$ /NDF: 14877.1/2

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

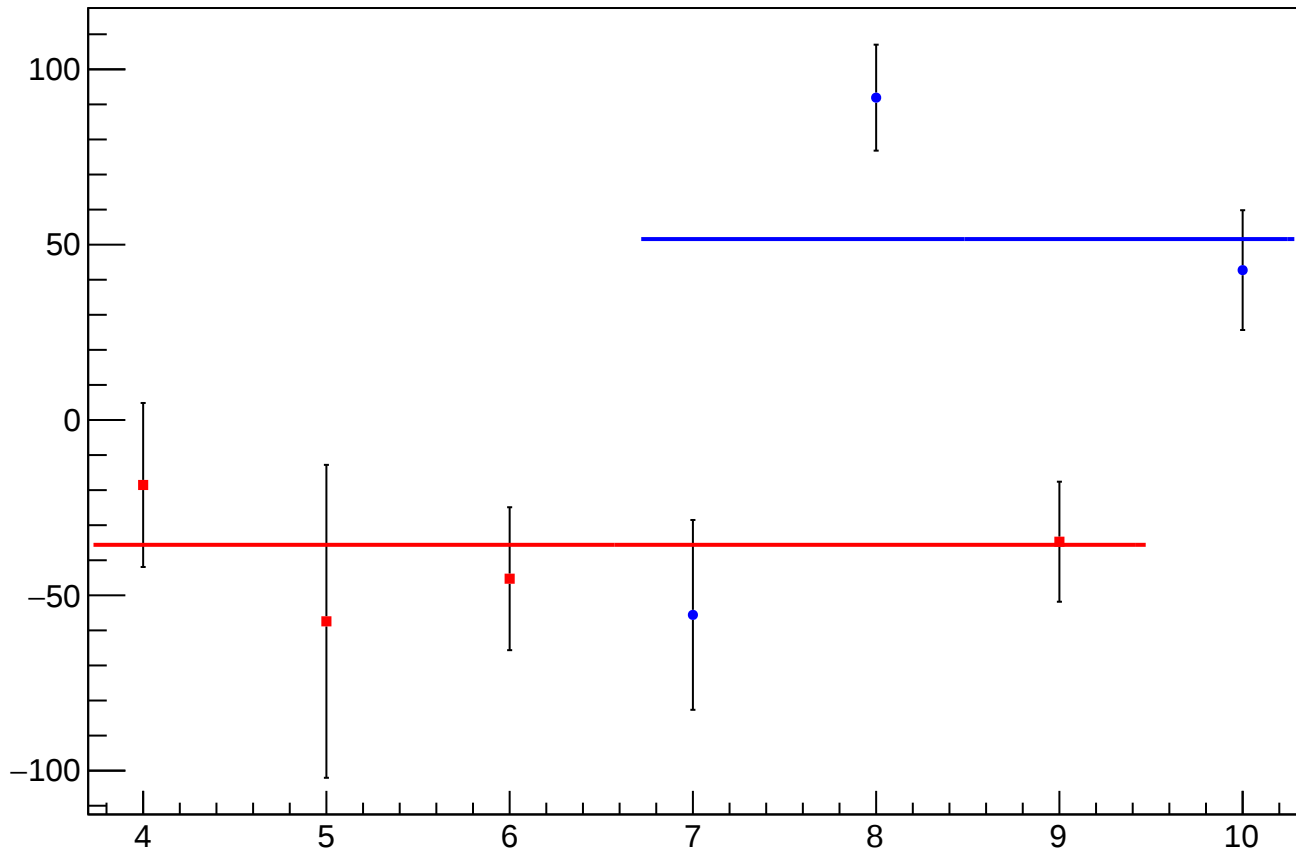
Right Out: 1591.604 $\pm$ 0.825  $\chi^2$ /NDF: 2479.4/3

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

1525.267 $\pm$ 0.761  $\chi^2$ /NDF: 14877.1/2

1591.604 $\pm$ 0.825  $\chi^2$ /NDF: 2479.4/3

diff\_bpm0l10X\_mean vs slug



Right In: 51.596+/-10.441  $\chi^2/\text{NDF}$ : 23.1/2

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

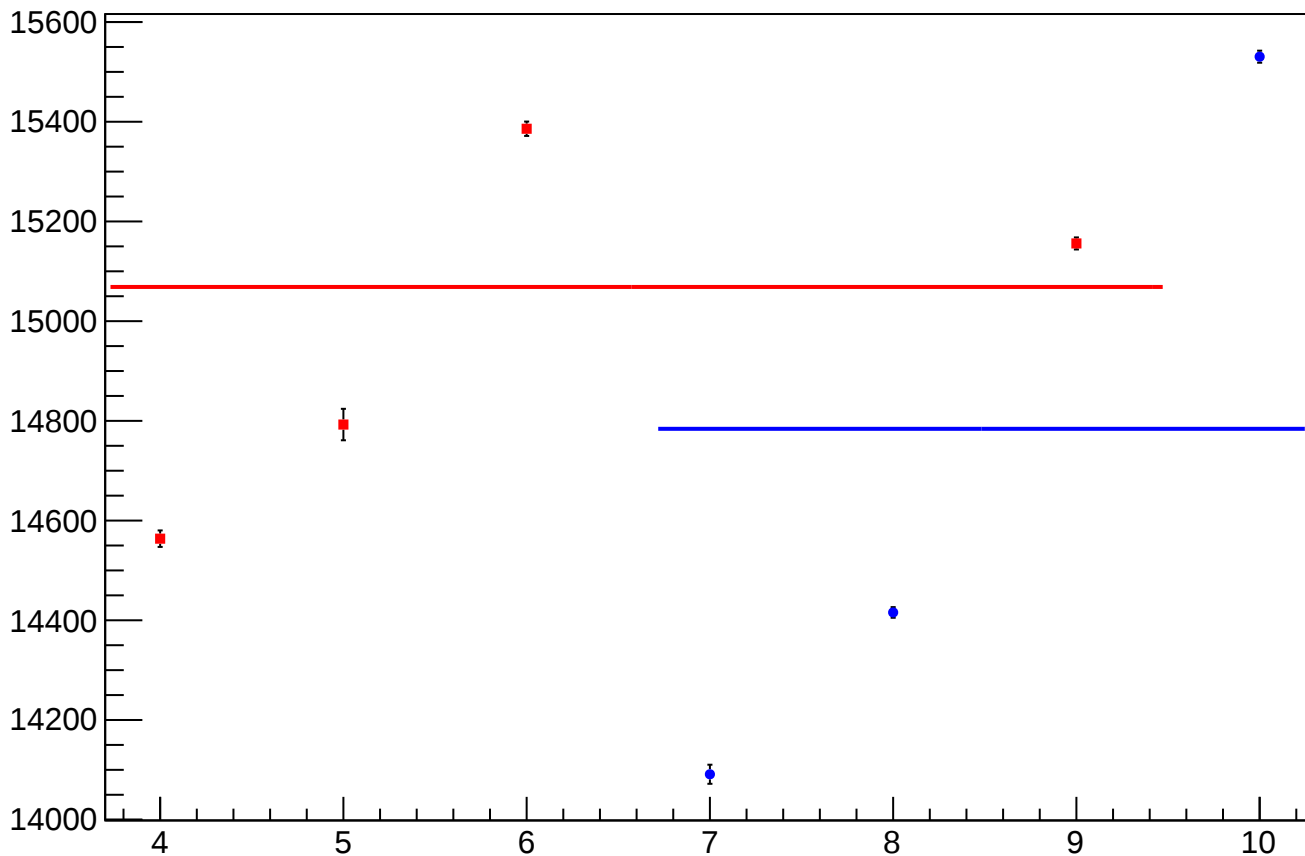
Right Out: -35.597+/-11.076  $\chi^2/\text{NDF}$ : 1.0/3

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

51.596+/-10.441  $\chi^2/\text{NDF}$ : 23.1/2

-35.597+/-11.076  $\chi^2/\text{NDF}$ : 1.0/3

# diff\_bpm0l10X\_rms vs slug



Right In: 14784.063+/-7.383  $\chi^2/\text{NDF}$ : 6319.1/2

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

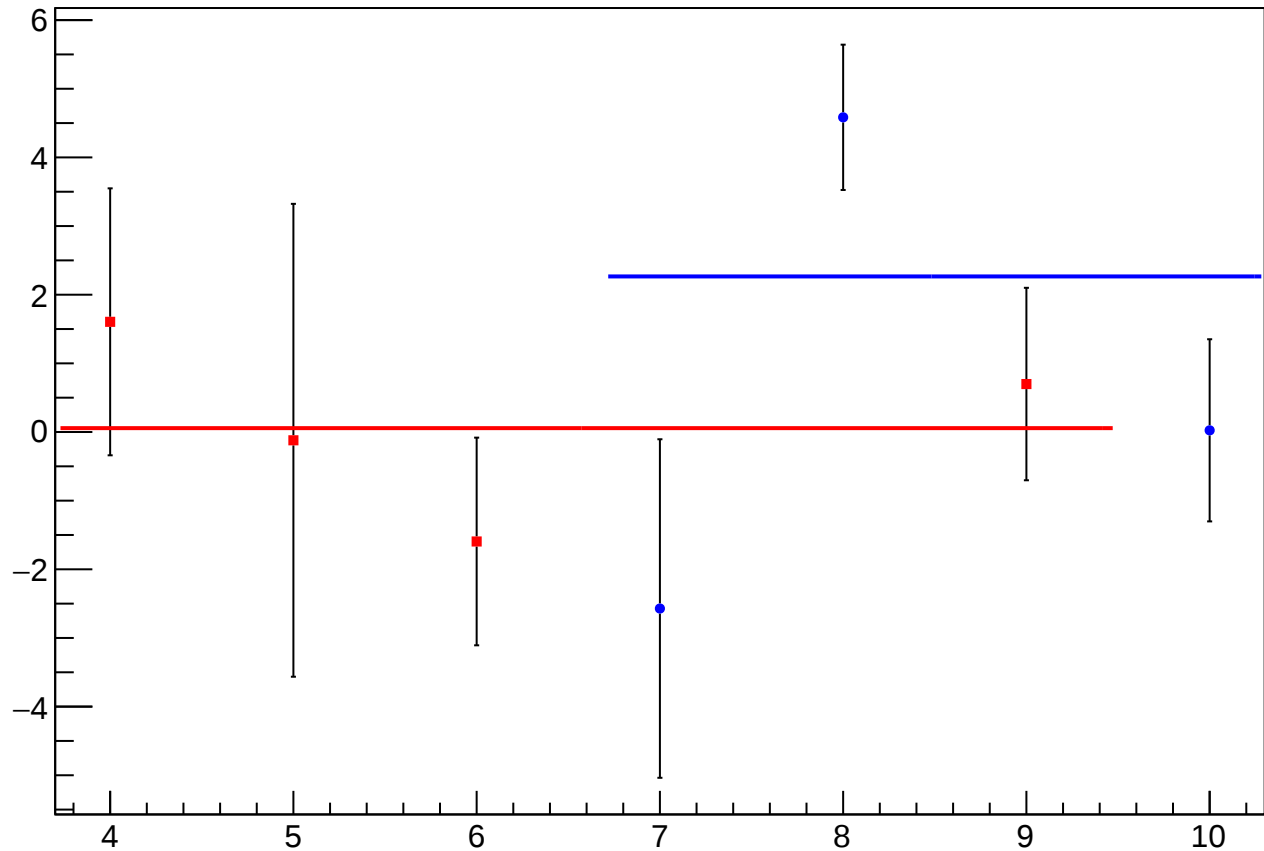
Right Out: 15068.625+/-7.832  $\chi^2/\text{NDF}$ : 1545.7/3

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

14784.063+/-7.383  $\chi^2/\text{NDF}$ : 6319.1/2

15068.625+/-7.832  $\chi^2/\text{NDF}$ : 1545.7/3

diff\_bpm0l10Y\_mean vs slug



Right In: 2.266+/-0.784  $\chi^2/\text{NDF}$ : 11.5/2

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

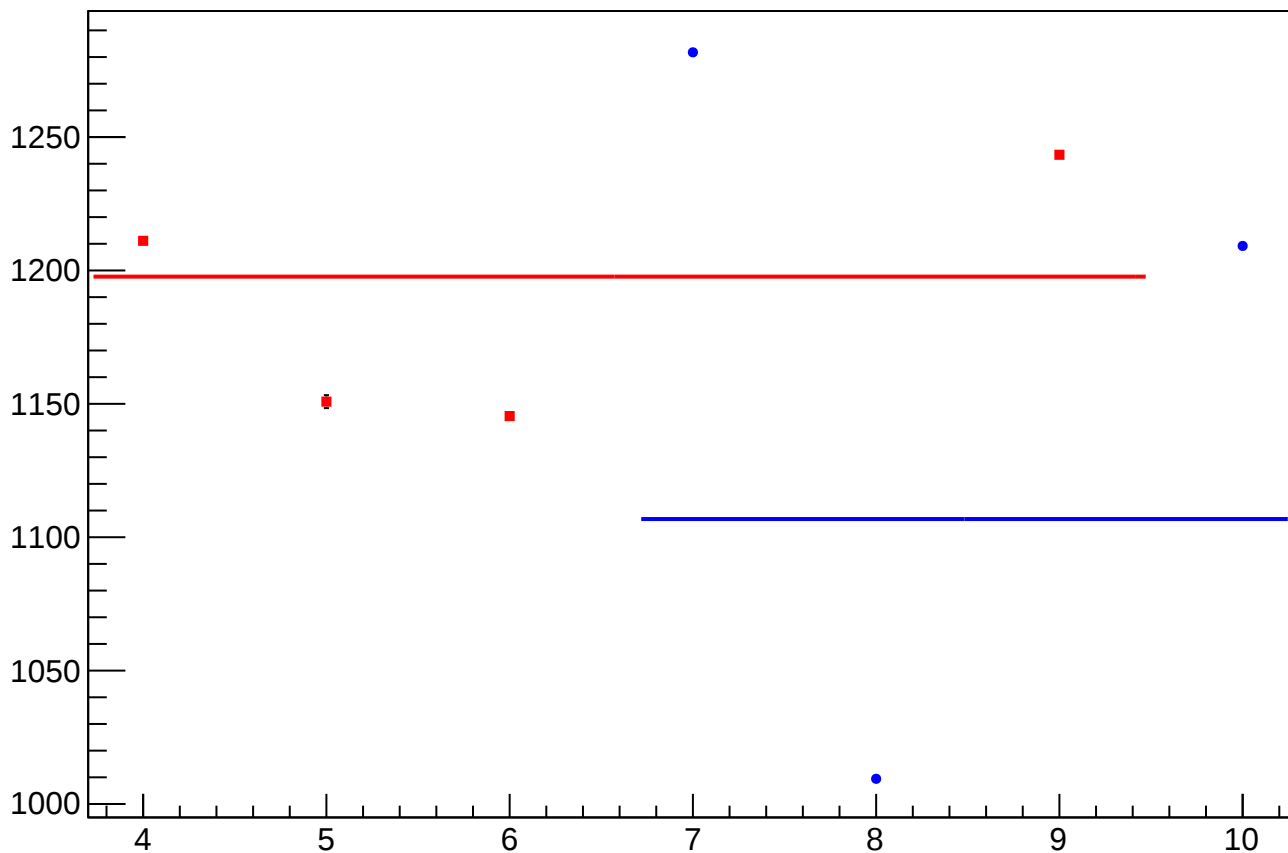
Right Out: 0.056+/-0.879  $\chi^2/\text{NDF}$ : 2.0/3

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

2.266+/-0.784  $\chi^2/\text{NDF}$ : 11.5/2

0.056+/-0.879  $\chi^2/\text{NDF}$ : 2.0/3

# diff\_bpm0l10Y\_rms vs slug



Right In: 1106.821+/-0.555  $\chi^2/\text{NDF}$ : 38910.8/2

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

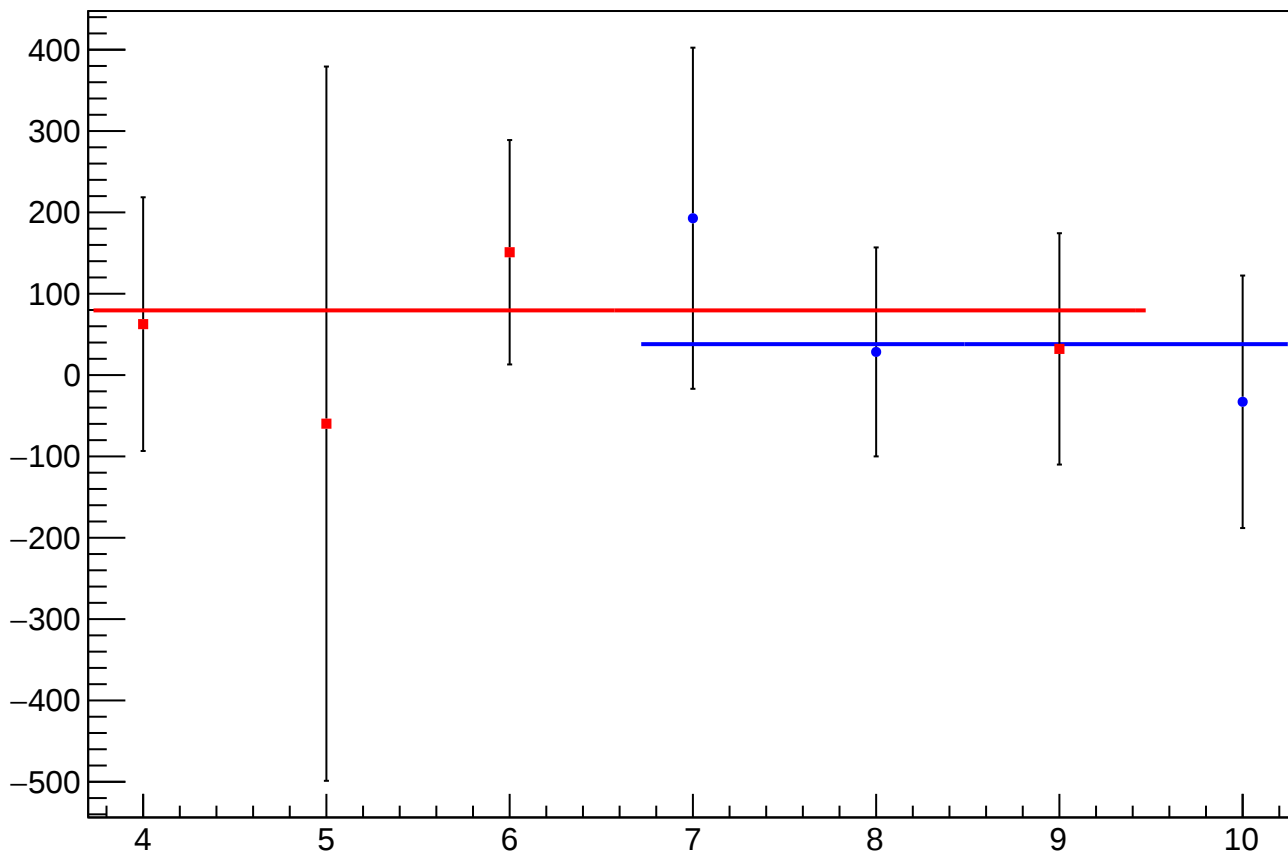
Right Out: 1197.691+/-0.621  $\chi^2/\text{NDF}$ : 4978.7/3

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

1106.821+/-0.555  $\chi^2/\text{NDF}$ : 38910.8/2

1197.691+/-0.621  $\chi^2/\text{NDF}$ : 4978.7/3

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_mean vs slug



Right In: 38.012 $\pm$ 89.491  $\chi^2$ /NDF: 0.8/2

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

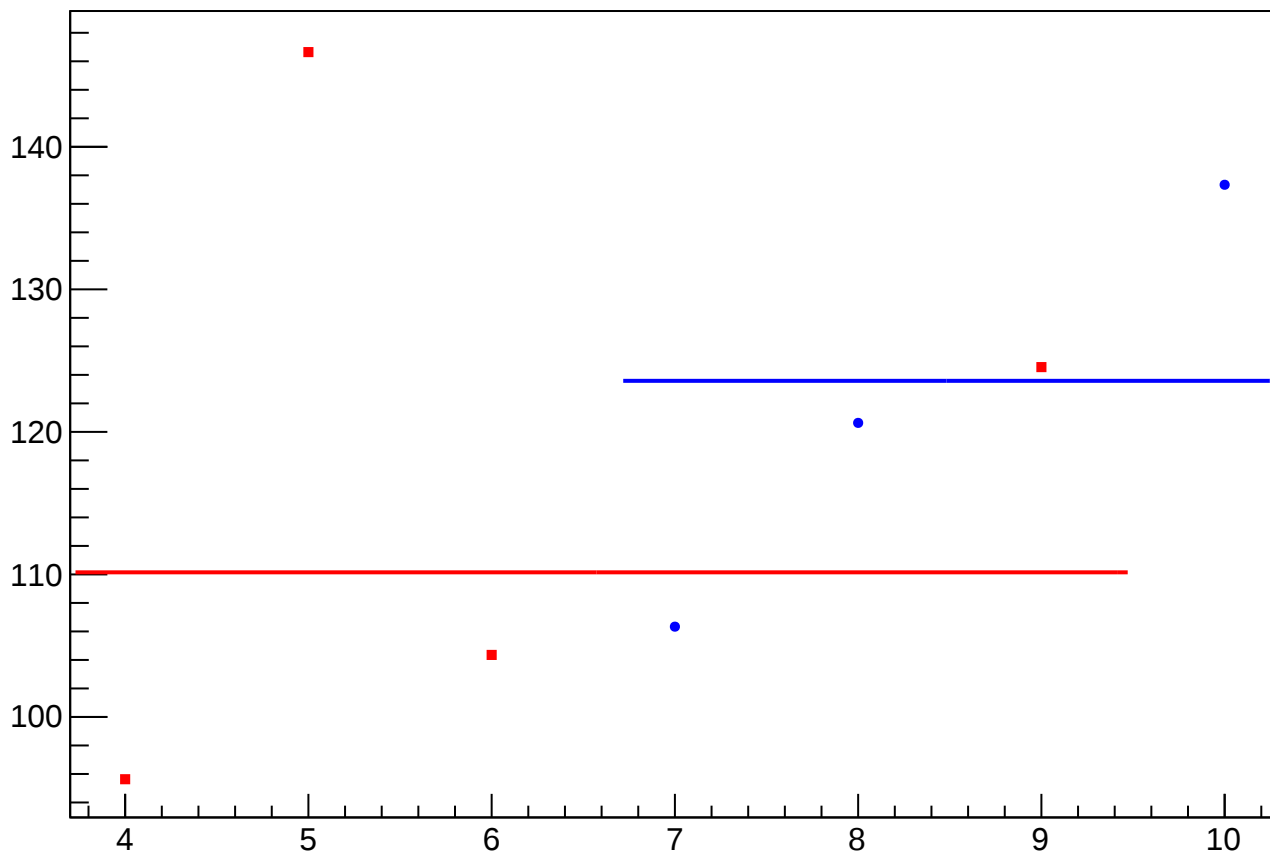
Right Out: 79.516 $\pm$ 82.112  $\chi^2$ /NDF: 0.5/3

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

38.012 $\pm$ 89.491  $\chi^2$ /NDF: 0.8/2

79.516 $\pm$ 82.112  $\chi^2$ /NDF: 0.5/3

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_avg\_rms vs slug



Right In: 123.582 $\pm$ 0.063  $\chi^2$ /NDF: 30294.7/2

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

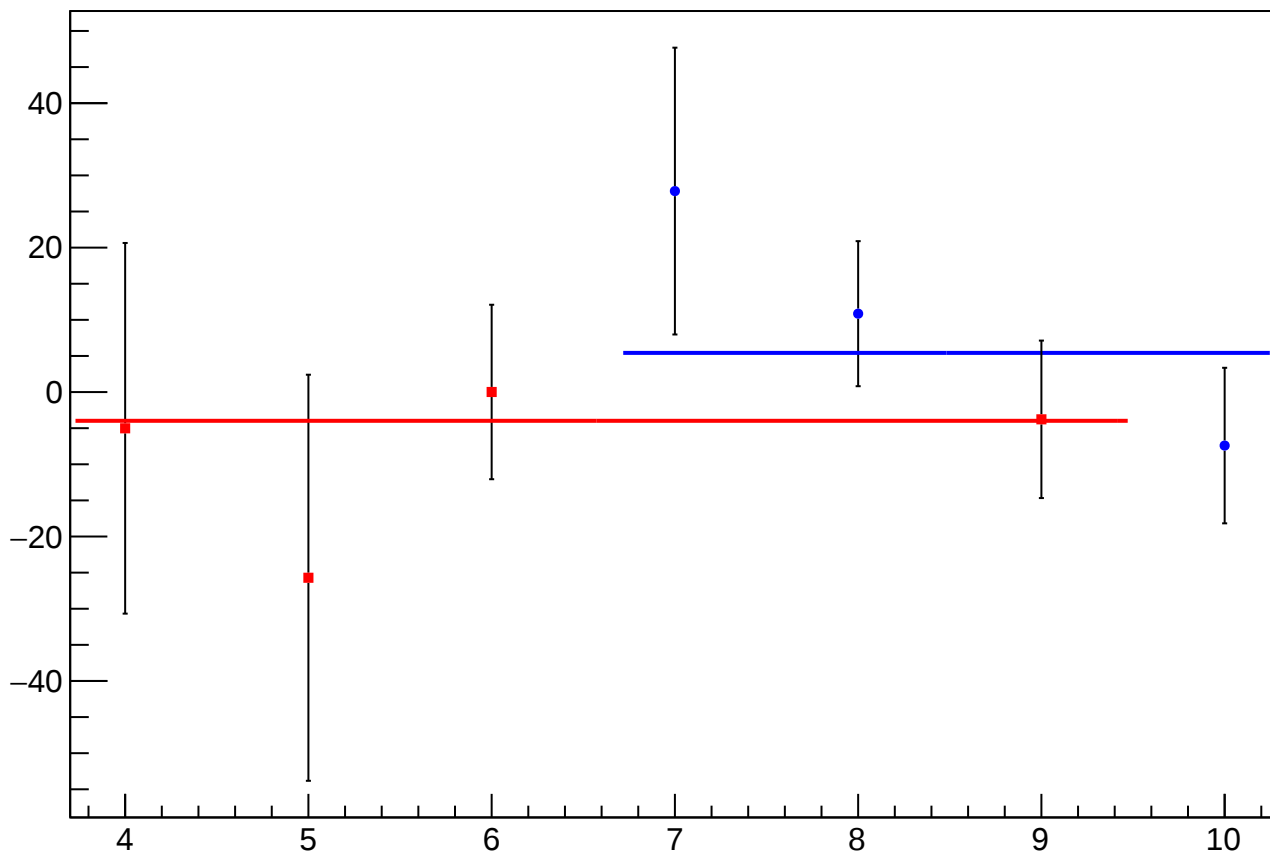
123.582 $\pm$ 0.063  $\chi^2$ /NDF: 30294.7/2

Right Out: 110.147 $\pm$ 0.058  $\chi^2$ /NDF: 55185.0/3

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

110.147 $\pm$ 0.058  $\chi^2$ /NDF: 55185.0/3

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_mean vs slug



Right In: 5.425+/-6.888  $\chi^2/\text{NDF}$ : 3.0/2

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

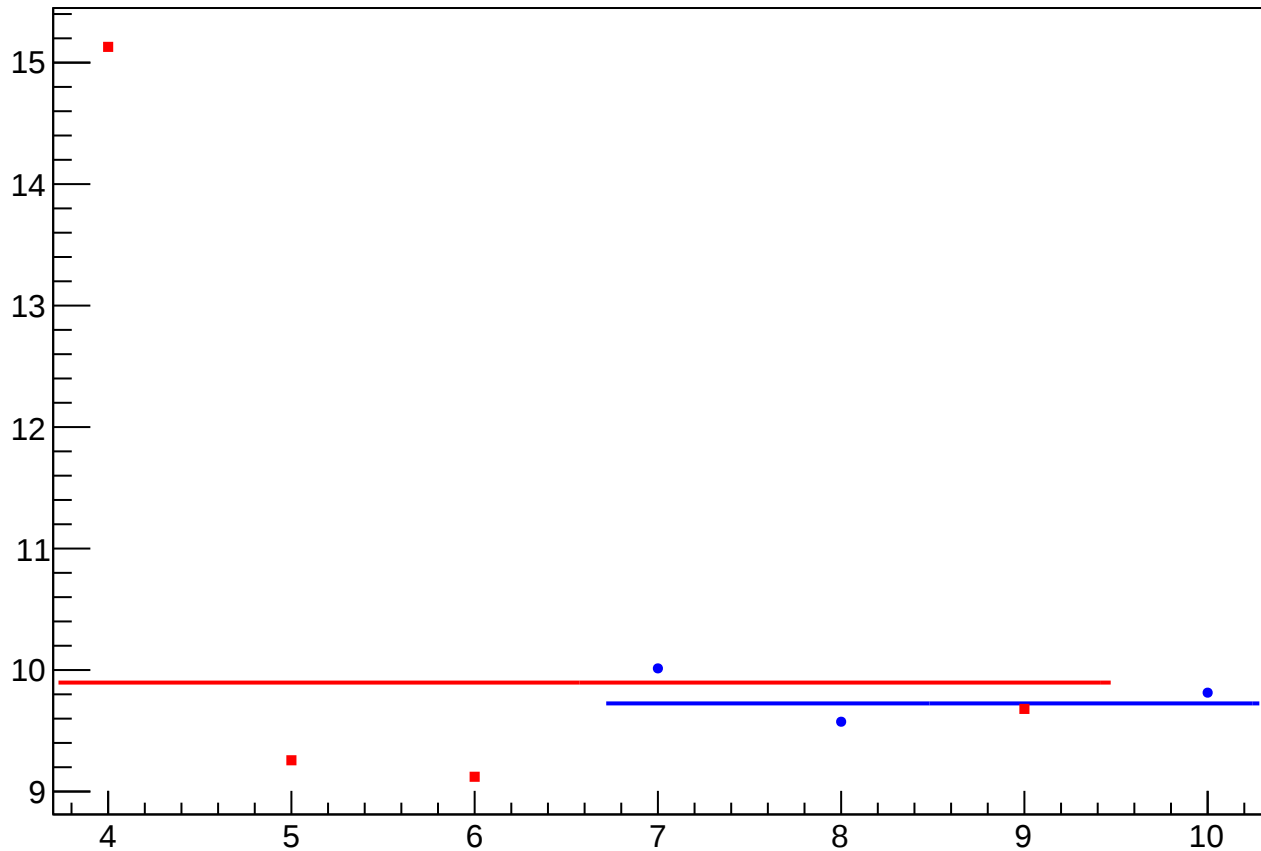
Right Out: -3.978+/-7.443  $\chi^2/\text{NDF}$ : 0.7/3

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

5.425+/-6.888  $\chi^2/\text{NDF}$ : 3.0/2

-3.978+/-7.443  $\chi^2/\text{NDF}$ : 0.7/3

asym\_bcm\_an\_us\_bcm\_an\_ds\_agg\_dd\_rms vs slug



Right In: 9.725+/-0.005  $\chi^2/\text{NDF}$ : 1007.3/2

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

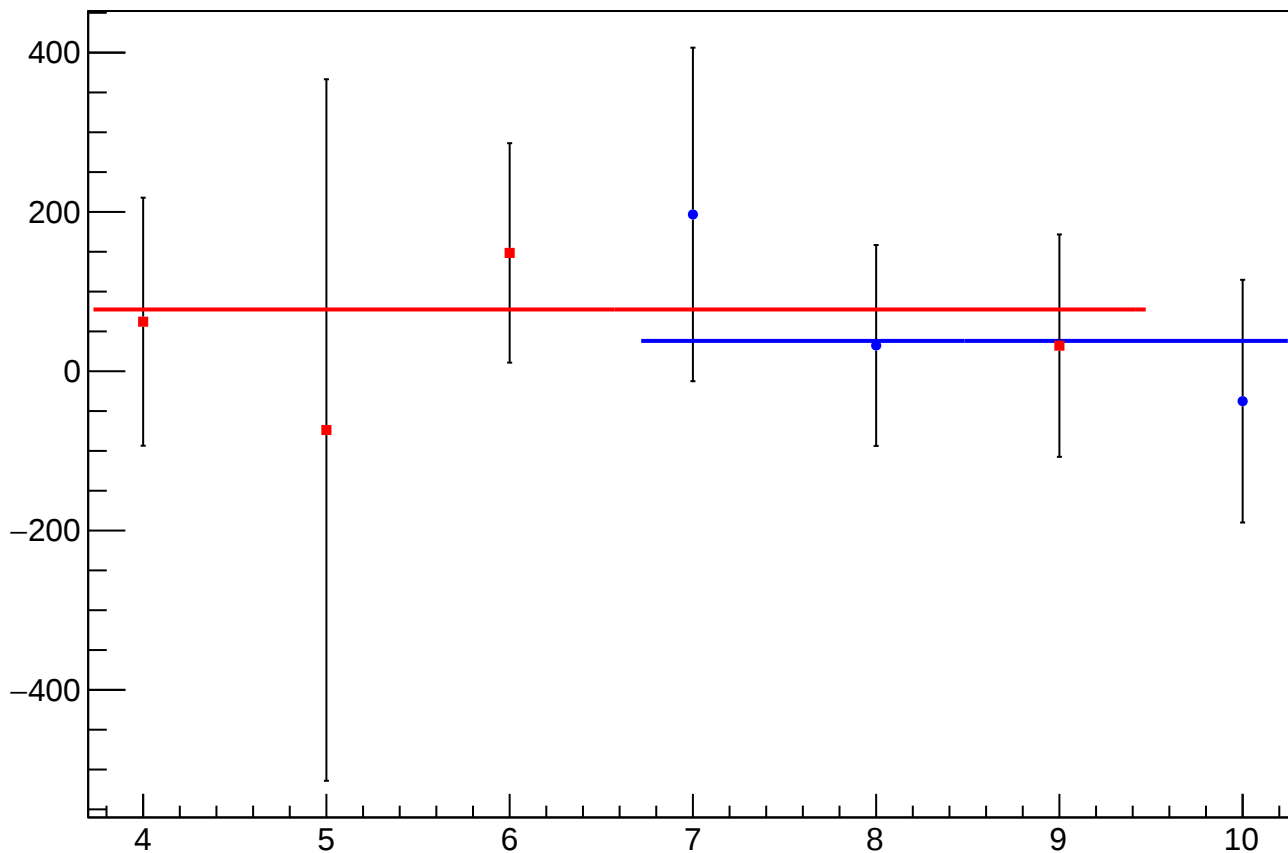
9.725+/-0.005  $\chi^2/\text{NDF}$ : 1007.3/2

Right Out: 9.897+/-0.005  $\chi^2/\text{NDF}$ : 93237.0/3

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

9.897+/-0.005  $\chi^2/\text{NDF}$ : 93237.0/3

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_mean vs slug



Right In: 38.105 $\pm$ 88.120  $\chi^2$ /NDF: 0.8/2

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

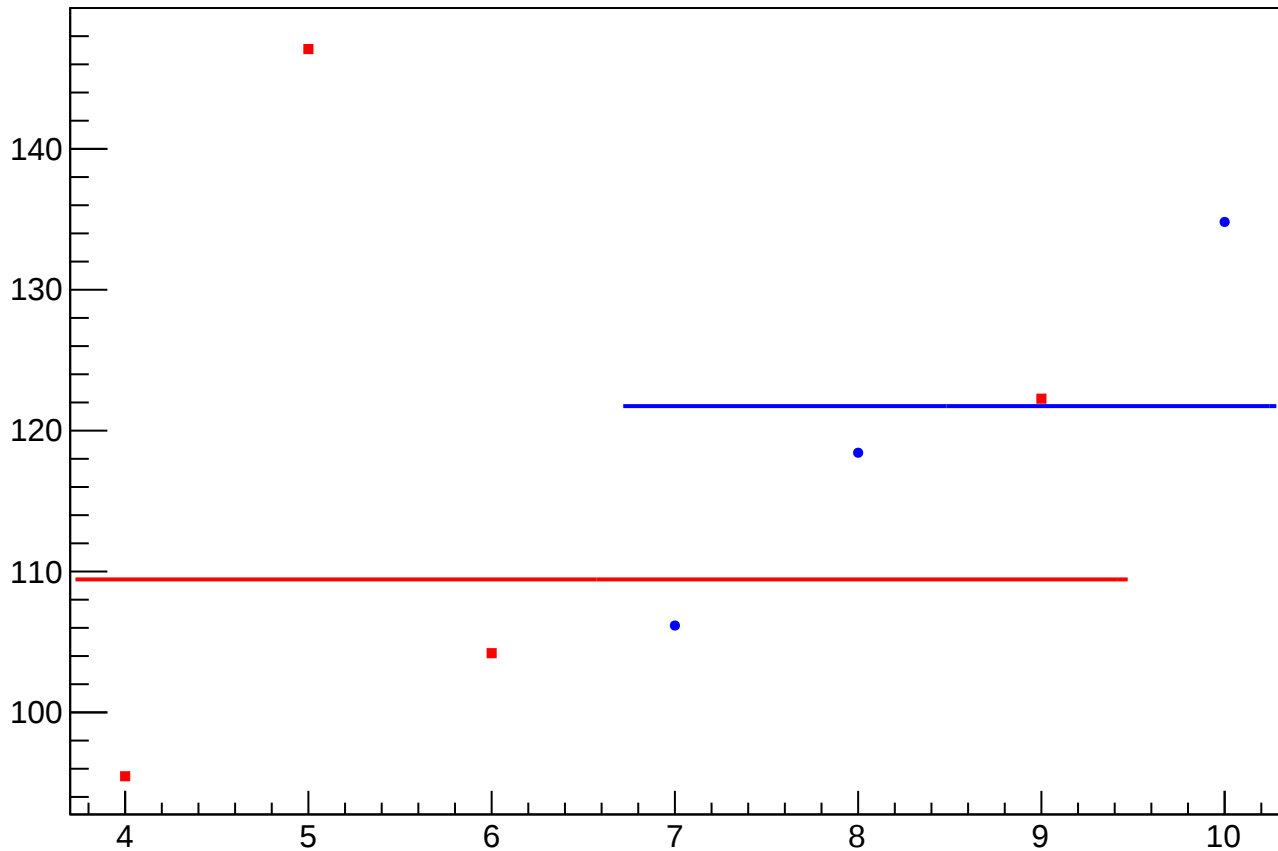
Right Out: 77.539 $\pm$ 81.530  $\chi^2$ /NDF: 0.5/3

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

38.105 $\pm$ 88.120  $\chi^2$ /NDF: 0.8/2

77.539 $\pm$ 81.530  $\chi^2$ /NDF: 0.5/3

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_avg\_rms vs slug



Right In: 121.740 $\pm$ 0.062  $\chi^2$ /NDF: 27170.2/2

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

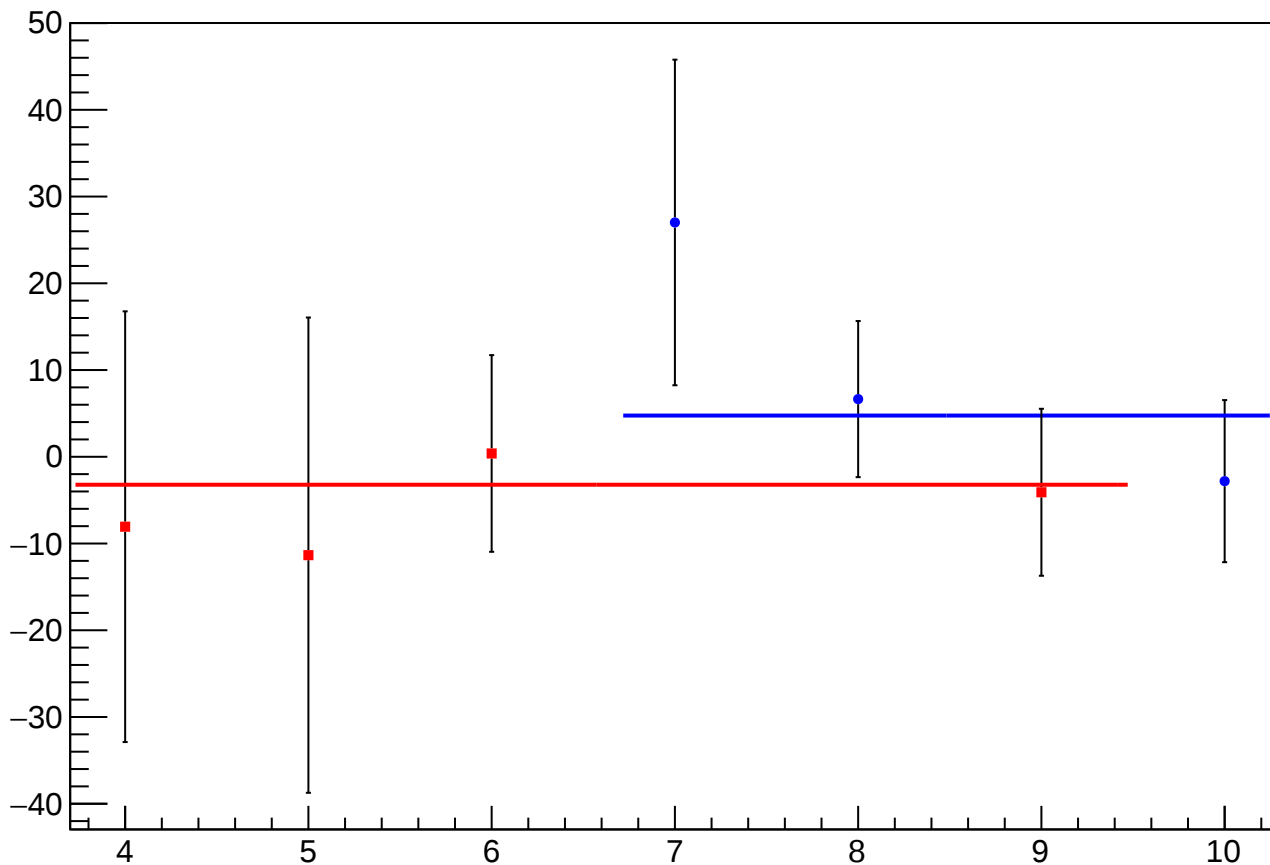
121.740 $\pm$ 0.062  $\chi^2$ /NDF: 27170.2/2

Right Out: 109.439 $\pm$ 0.058  $\chi^2$ /NDF: 50509.7/3

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

109.439 $\pm$ 0.058  $\chi^2$ /NDF: 50509.7/3

asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_mean vs slug



Right In: 4.752+/-6.127  $\chi^2/\text{NDF}$ : 2.1/2

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

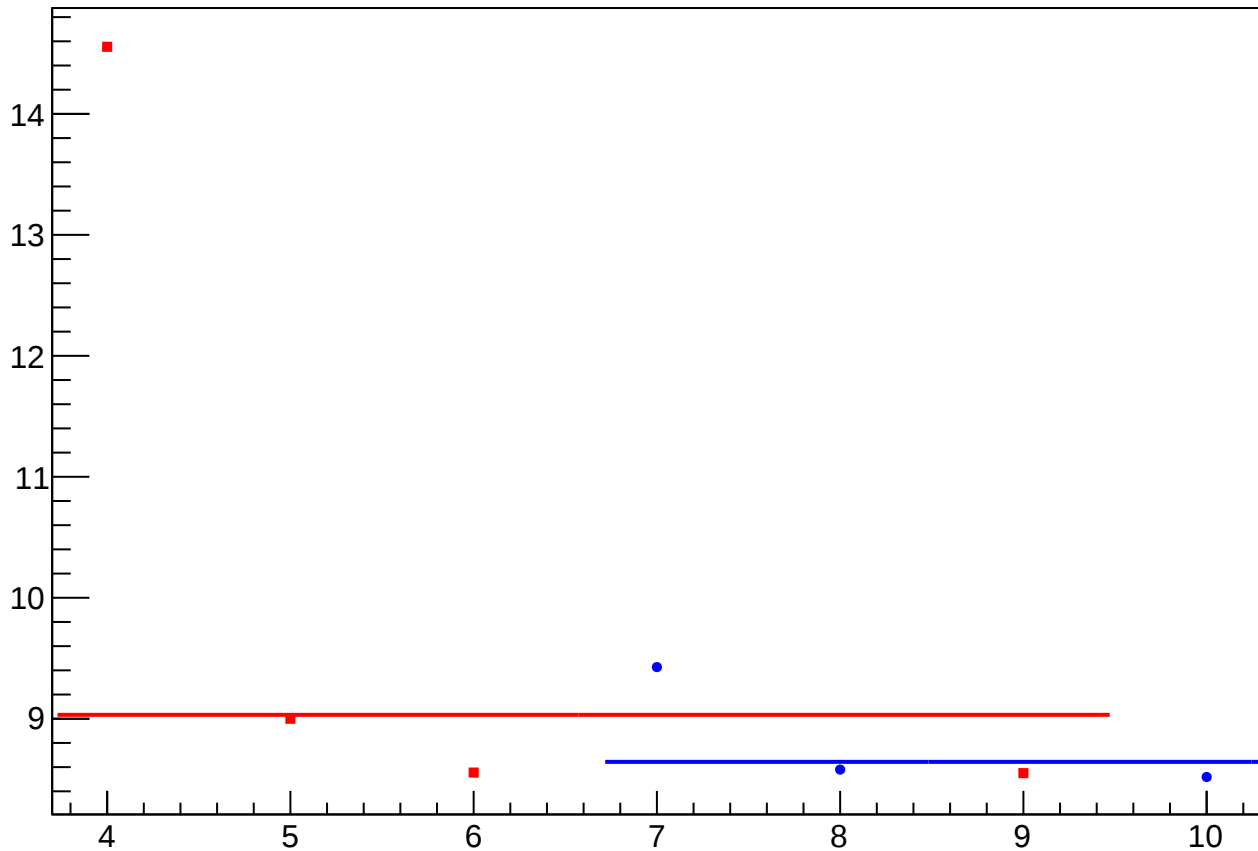
4.752+/-6.127  $\chi^2/\text{NDF}$ : 2.1/2

Right Out: -3.223+/-6.815  $\chi^2/\text{NDF}$ : 0.2/3

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

-3.223+/-6.815  $\chi^2/\text{NDF}$ : 0.2/3

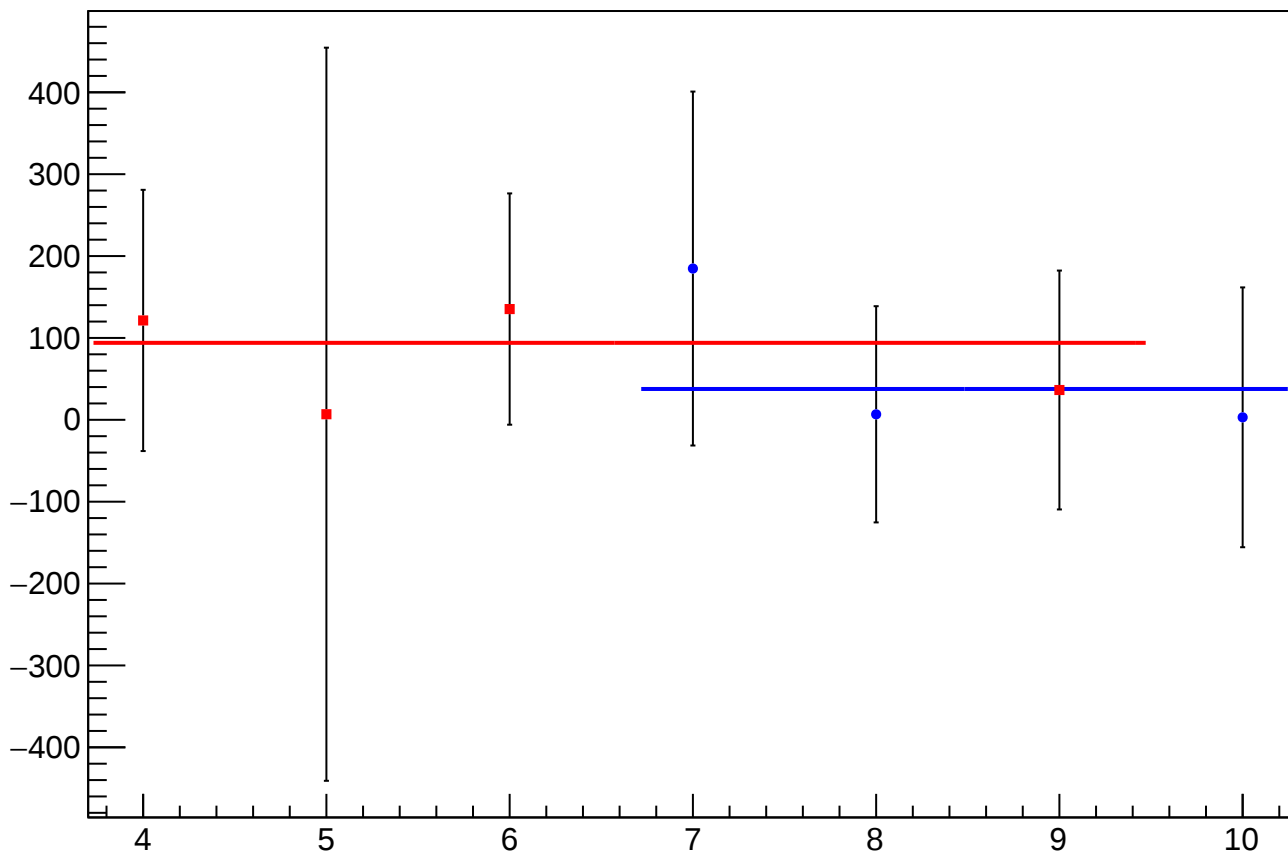
asym\_bcm\_an\_us\_bcm\_an\_ds3\_agg\_dd\_rms vs slug



Right In: 8.644+/-0.004  $\chi^2/\text{NDF}$ : 3944.9/2  
 Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0  
 Right Out: 9.032+/-0.005  $\chi^2/\text{NDF}$ : 107503.4/3  
 Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

8.644+/-0.004  $\chi^2/\text{NDF}$ : 3944.9/2  
 9.032+/-0.005  $\chi^2/\text{NDF}$ : 107503.4/3

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_mean vs slug



Right In: 37.660 $\pm$ 91.868  $\chi^2$ /NDF: 0.6/2

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

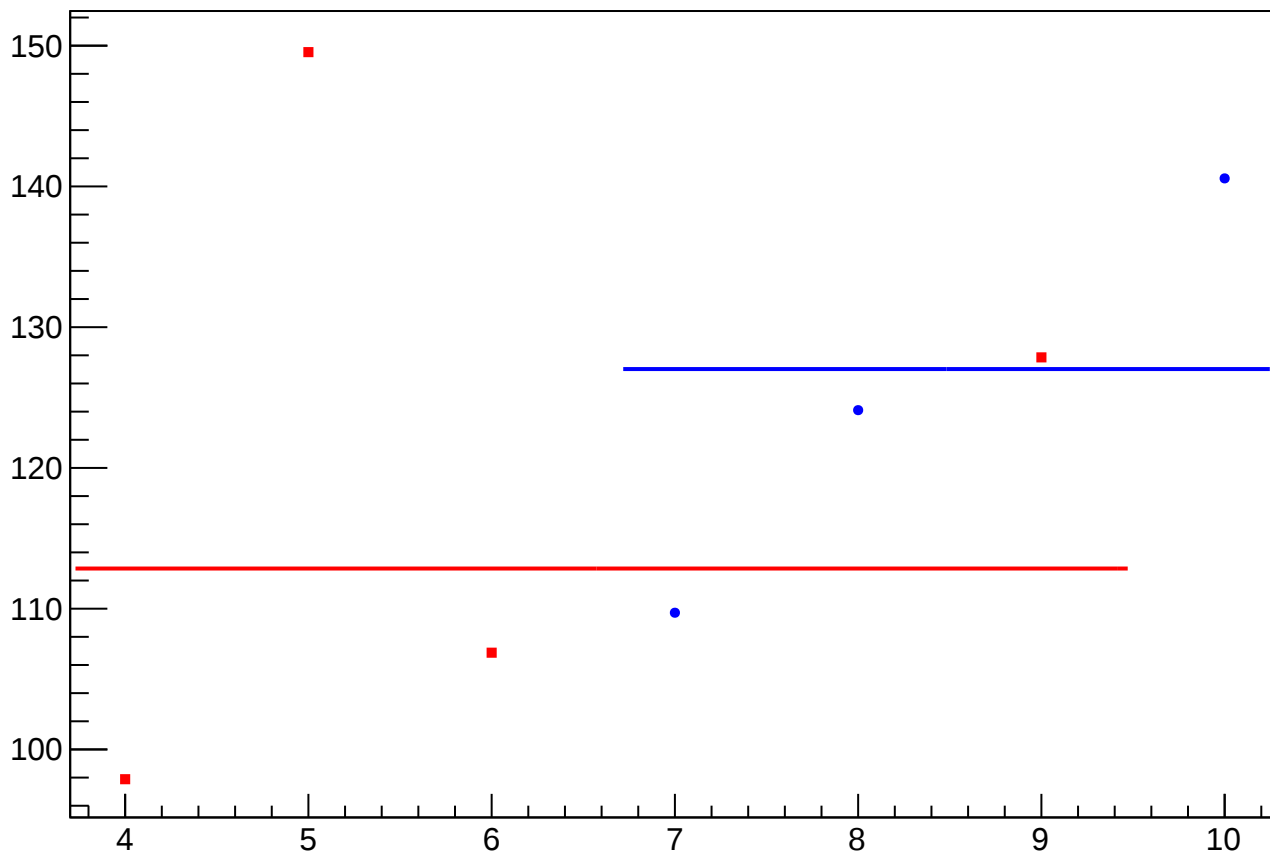
Right Out: 94.018 $\pm$ 84.096  $\chi^2$ /NDF: 0.3/3

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

37.660 $\pm$ 91.868  $\chi^2$ /NDF: 0.6/2

94.018 $\pm$ 84.096  $\chi^2$ /NDF: 0.3/3

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_avg\_rms vs slug



Right In: 127.025+/-0.065  $\chi^2/\text{NDF}$ : 28386.5/2

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

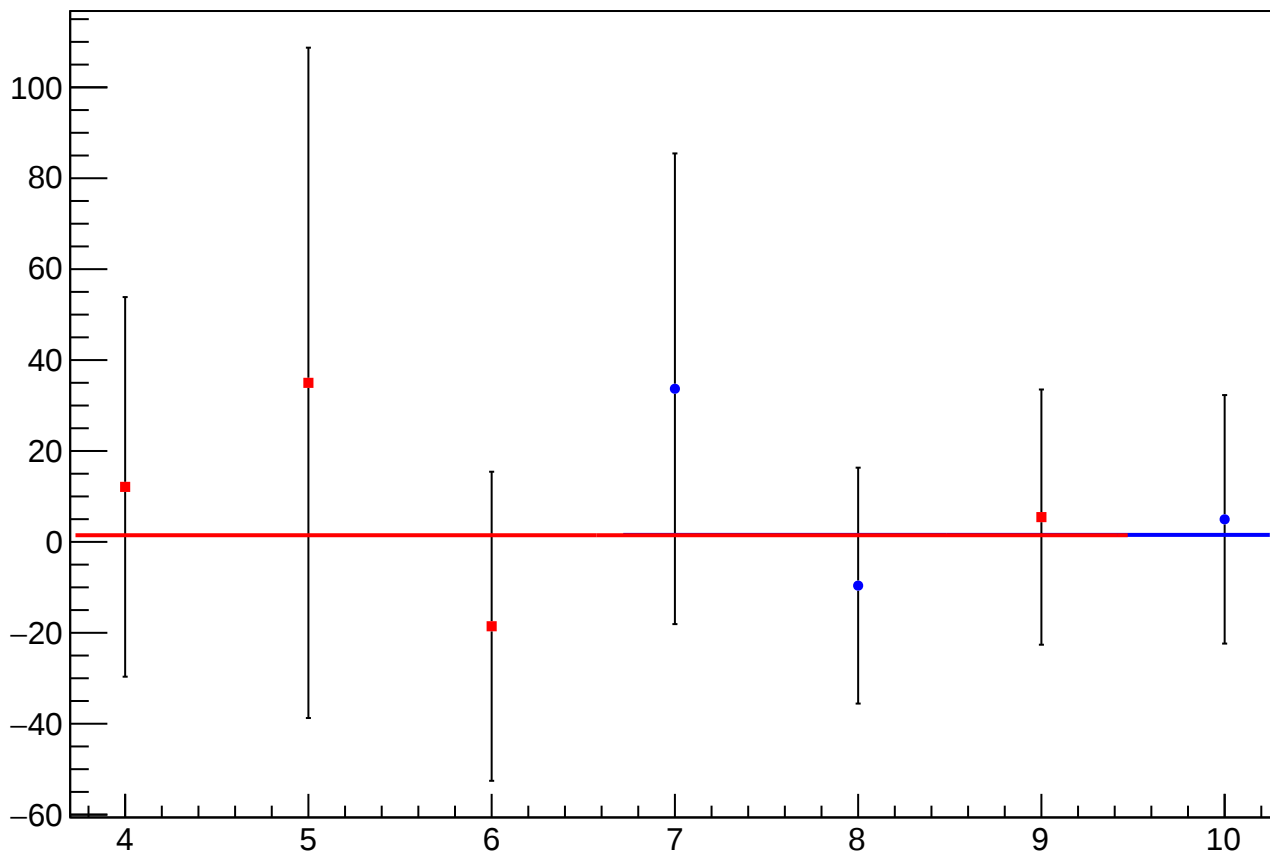
127.025+/-0.065  $\chi^2/\text{NDF}$ : 28386.5/2

Right Out: 112.853+/-0.059  $\chi^2/\text{NDF}$ : 55774.5/3

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

112.853+/-0.059  $\chi^2/\text{NDF}$ : 55774.5/3

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_mean vs slug



Right In: 1.542+/-17.687  $\chi^2/\text{NDF}$ : 0.6/2

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

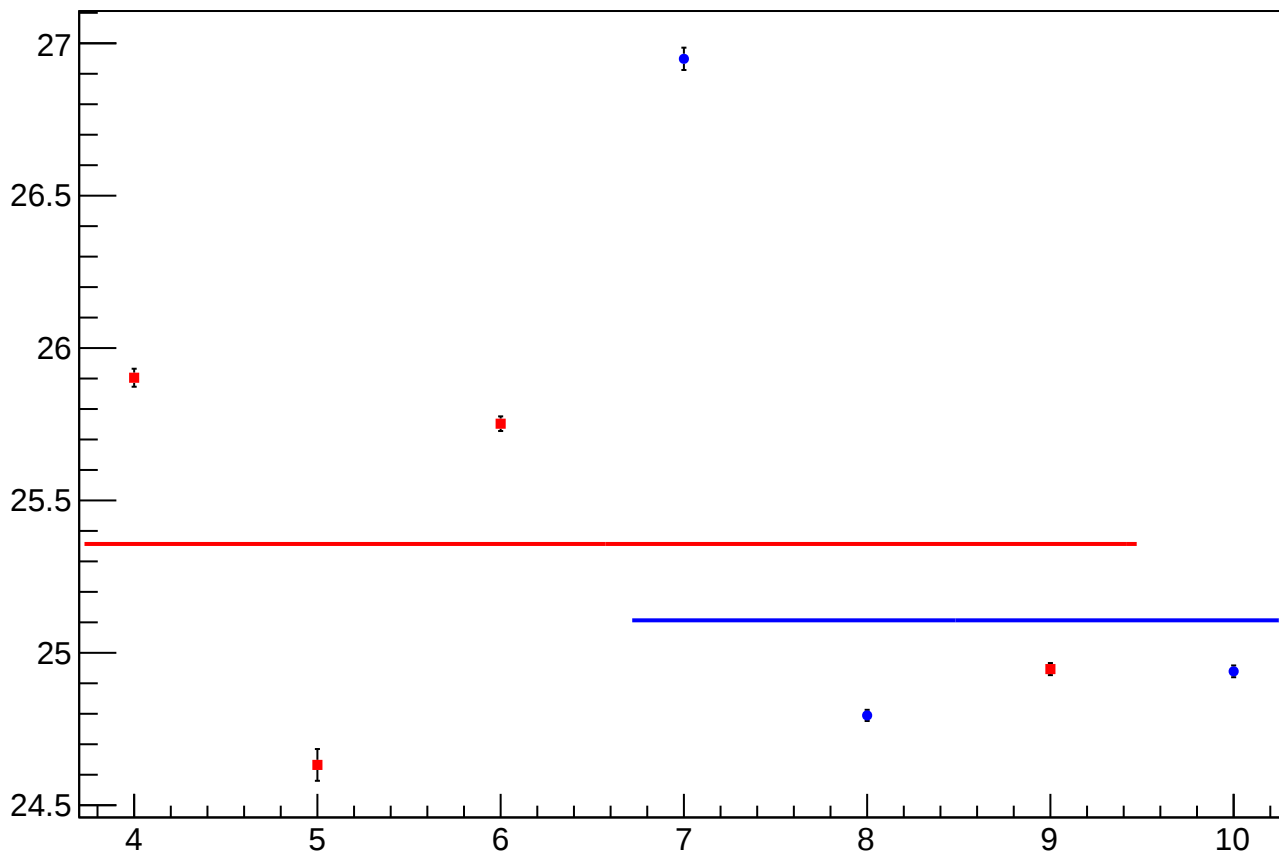
Right Out: 1.466+/-18.597  $\chi^2/\text{NDF}$ : 0.6/3

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

1.542+/-17.687  $\chi^2/\text{NDF}$ : 0.6/2

1.466+/-18.597  $\chi^2/\text{NDF}$ : 0.6/3

asym\_bcm\_dg\_us\_bcm\_an\_ds\_agg\_dd\_rms vs slug



Right In: 25.107+/-0.013  $\chi^2/\text{NDF}$ : 2896.8/2

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

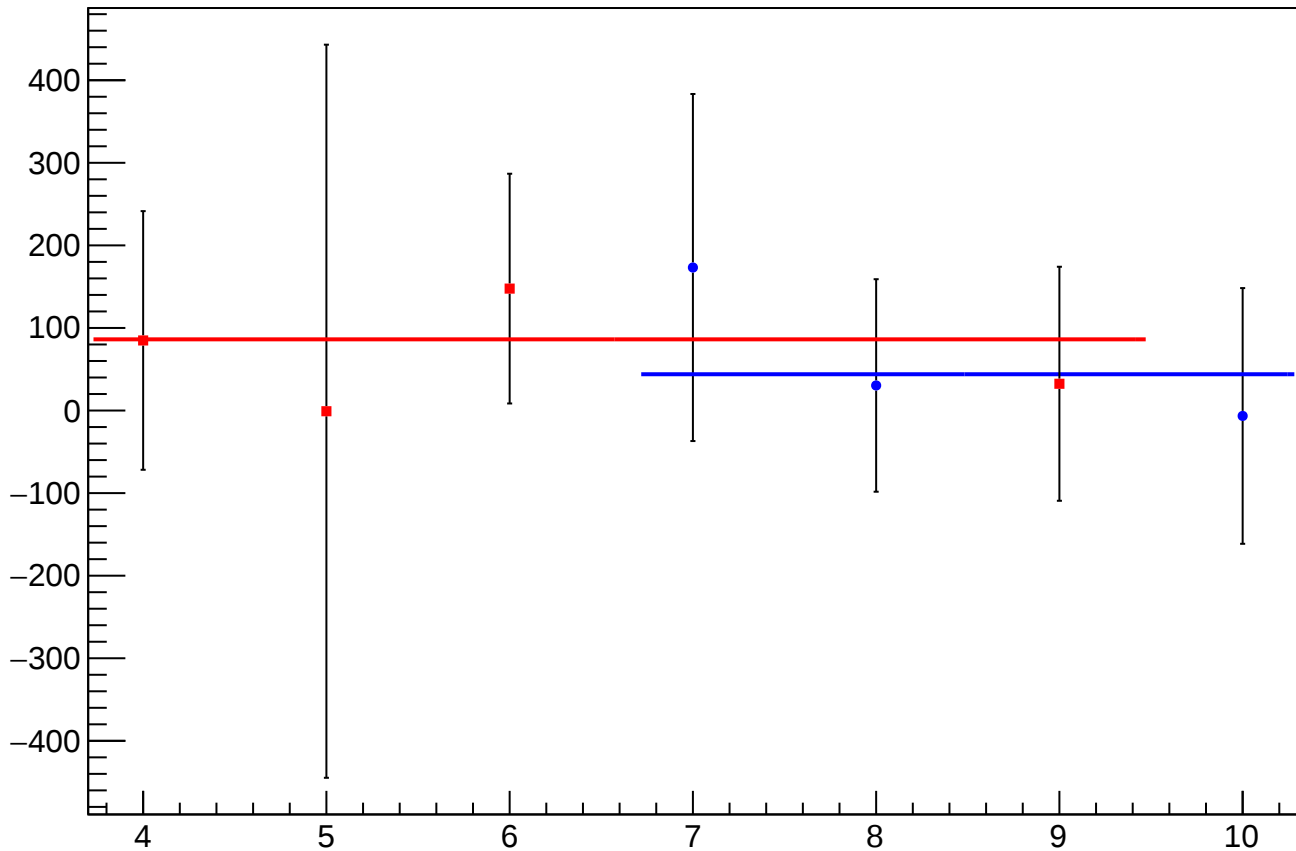
Right Out: 25.357+/-0.013  $\chi^2/\text{NDF}$ : 1231.8/3

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

25.107+/-0.013  $\chi^2/\text{NDF}$ : 2896.8/2

25.357+/-0.013  $\chi^2/\text{NDF}$ : 1231.8/3

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_mean vs slug



Right In: 43.947+/-89.532  $\chi^2/\text{NDF}$ : 0.5/2

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

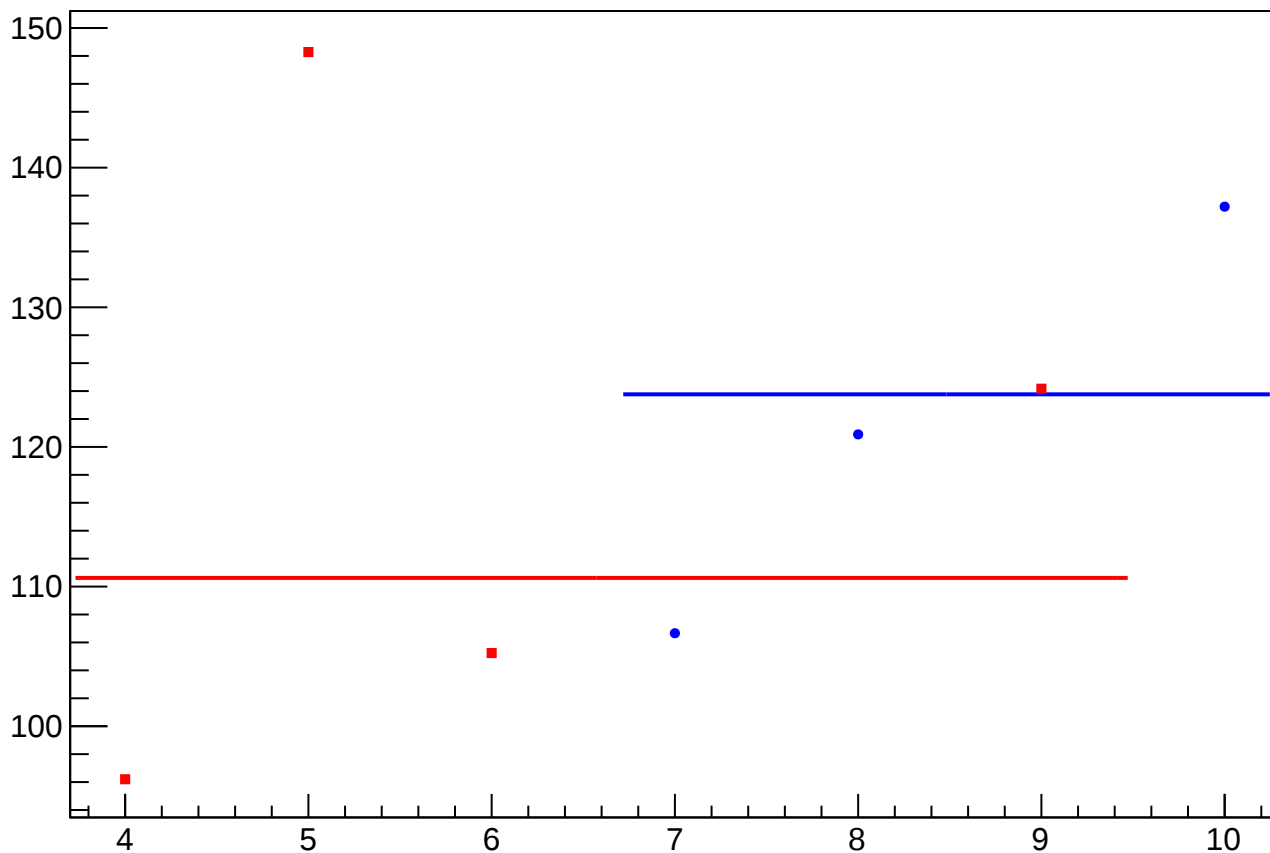
Right Out: 86.209+/-82.389  $\chi^2/\text{NDF}$ : 0.4/3

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

43.947+/-89.532  $\chi^2/\text{NDF}$ : 0.5/2

86.209+/-82.389  $\chi^2/\text{NDF}$ : 0.4/3

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_avg\_rms vs slug



Right In: 123.767 $\pm$ 0.063  $\chi^2$ /NDF: 29318.0/2

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

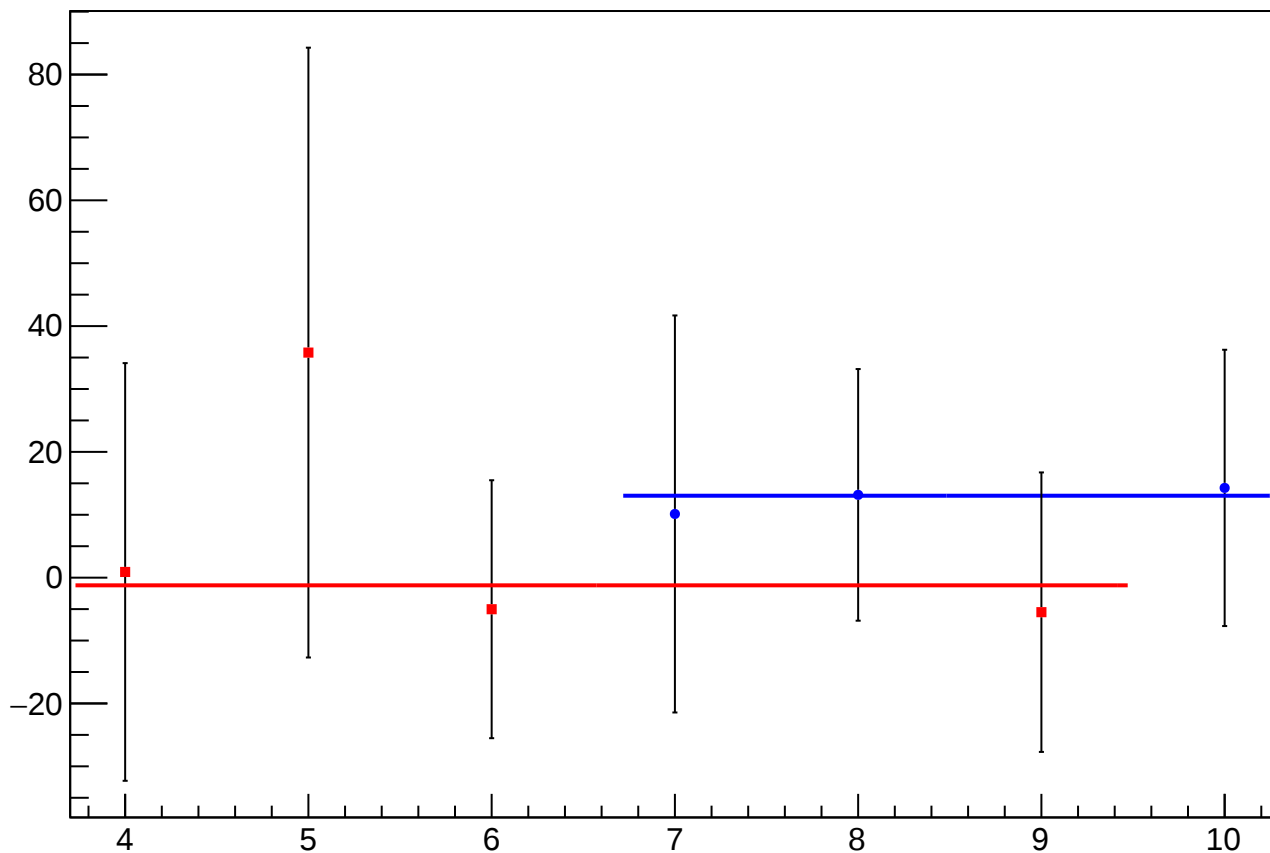
123.767 $\pm$ 0.063  $\chi^2$ /NDF: 29318.0/2

Right Out: 110.620 $\pm$ 0.058  $\chi^2$ /NDF: 52619.7/3

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

110.620 $\pm$ 0.058  $\chi^2$ /NDF: 52619.7/3

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_mean vs slug



Right In: 13.029+/-13.394  $\chi^2/\text{NDF}$ : 0.0/2

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

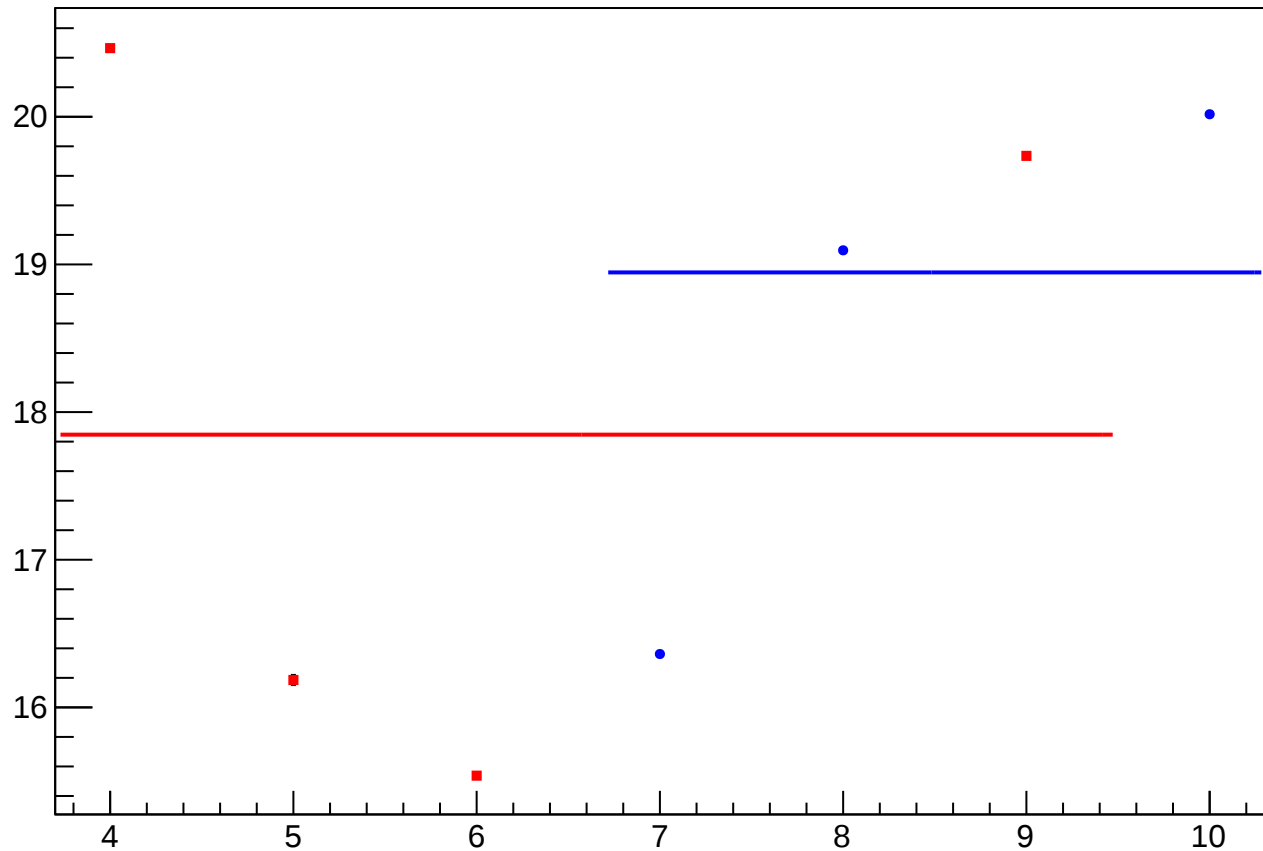
Right Out: -1.220+/-13.205  $\chi^2/\text{NDF}$ : 0.7/3

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

13.029+/-13.394  $\chi^2/\text{NDF}$ : 0.0/2

-1.220+/-13.205  $\chi^2/\text{NDF}$ : 0.7/3

asym\_bcm\_dg\_ds\_bcm\_an\_ds\_agg\_dd\_rms vs slug



Right In: 18.946+/-0.009  $\chi^2/\text{NDF}$ : 18276.1/2

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

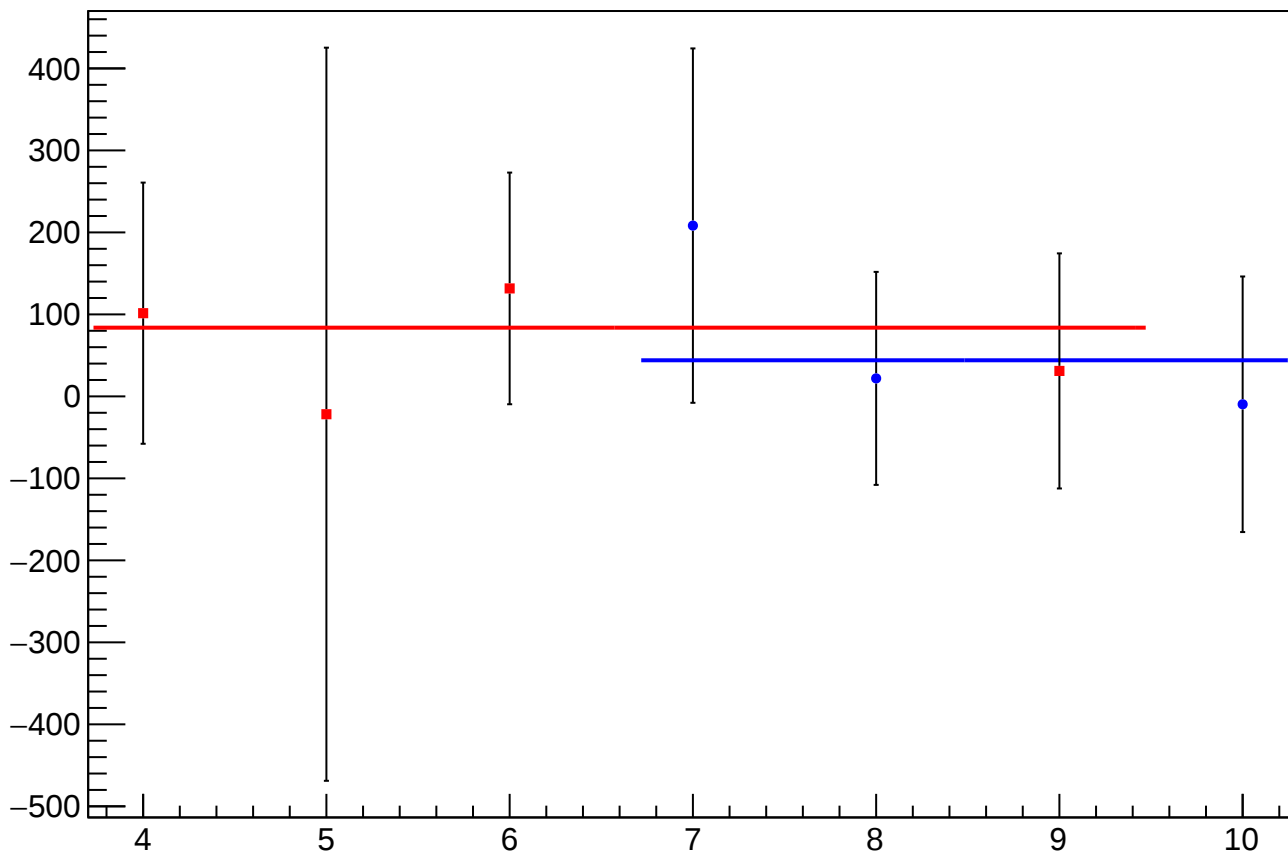
Right Out: 17.847+/-0.009  $\chi^2/\text{NDF}$ : 54581.0/3

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

18.946+/-0.009  $\chi^2/\text{NDF}$ : 18276.1/2

17.847+/-0.009  $\chi^2/\text{NDF}$ : 54581.0/3

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_mean vs slug



Right In: 44.027+/-90.596  $\chi^2/\text{NDF}$ : 0.7/2

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

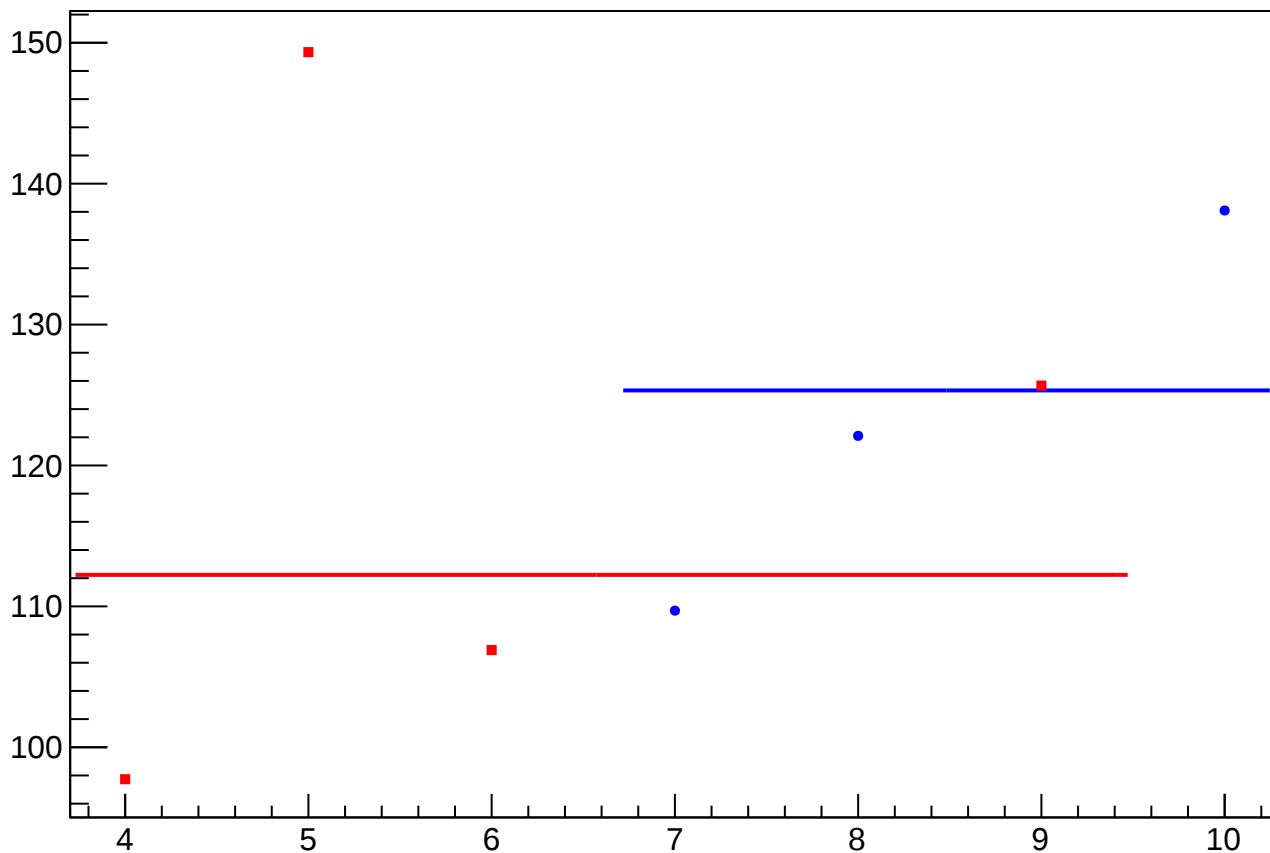
Right Out: 83.806+/-83.574  $\chi^2/\text{NDF}$ : 0.3/3

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

44.027+/-90.596  $\chi^2/\text{NDF}$ : 0.7/2

83.806+/-83.574  $\chi^2/\text{NDF}$ : 0.3/3

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_avg\_rms vs slug



Right In: 125.326 $\pm$ 0.064  $\chi^2$ /NDF: 25119.4/2

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

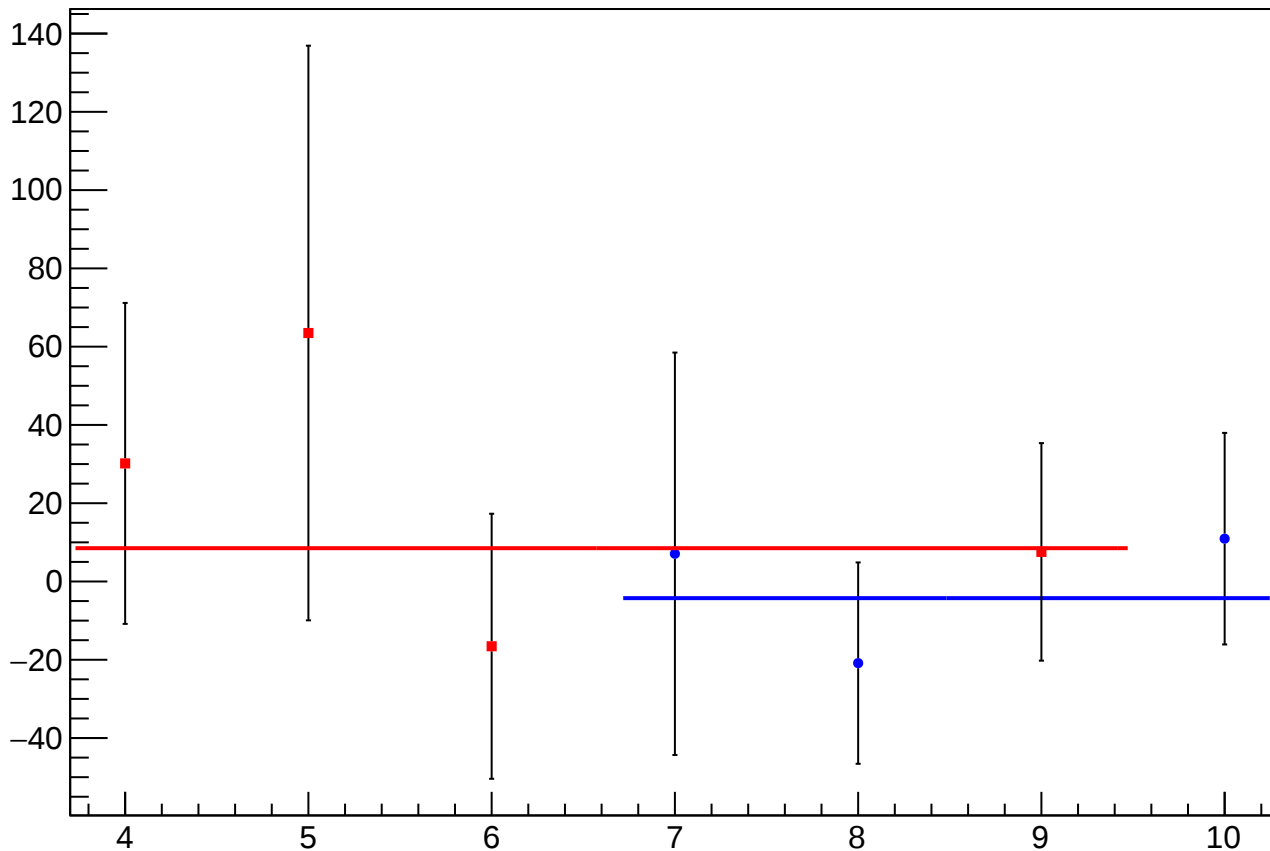
125.326 $\pm$ 0.064  $\chi^2$ /NDF: 25119.4/2

Right Out: 112.235 $\pm$ 0.059  $\chi^2$ /NDF: 50760.1/3

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

112.235 $\pm$ 0.059  $\chi^2$ /NDF: 50760.1/3

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_mean vs slug



Right In: -4.256+/-17.518  $\chi^2/\text{NDF}$ : 0.8/2

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

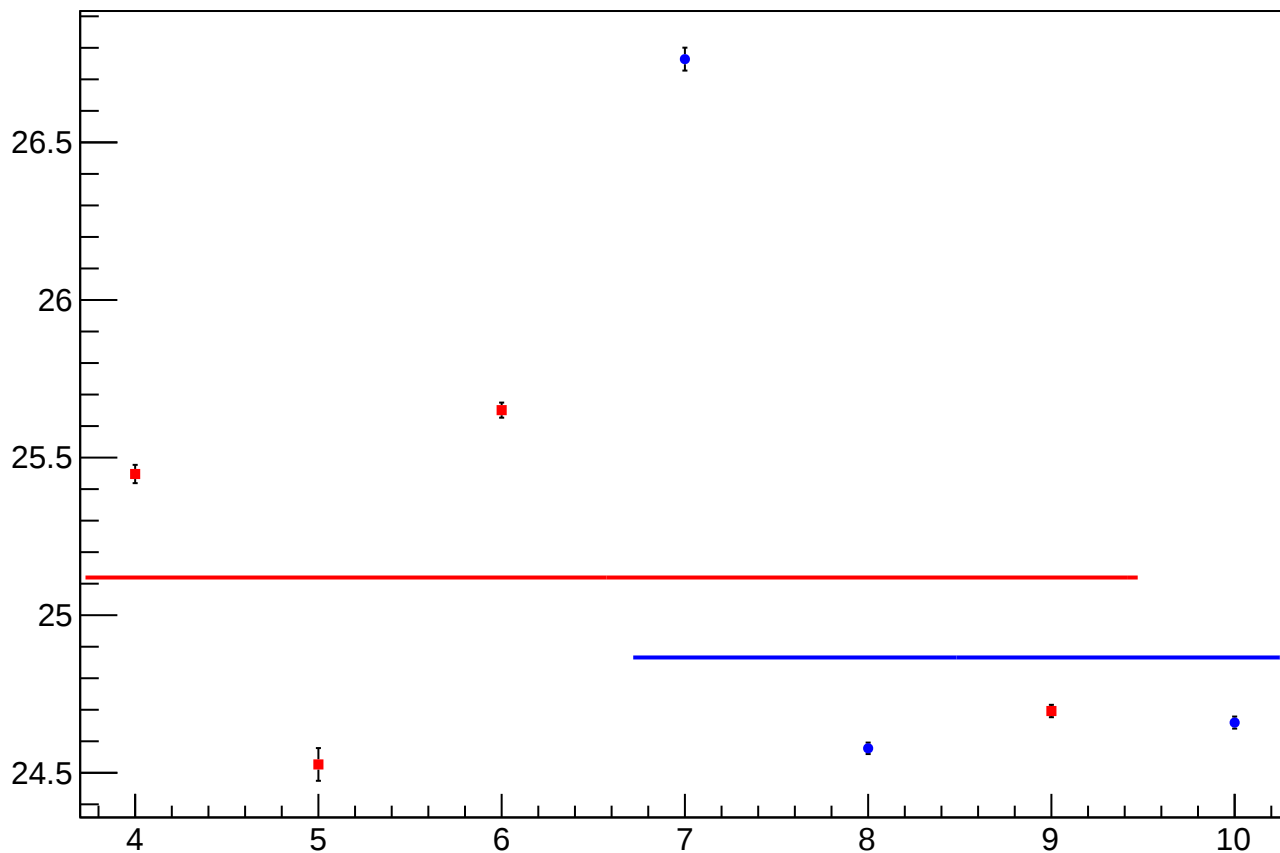
Right Out: 8.510+/-18.420  $\chi^2/\text{NDF}$ : 1.4/3

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

-4.256+/-17.518  $\chi^2/\text{NDF}$ : 0.8/2

8.510+/-18.420  $\chi^2/\text{NDF}$ : 1.4/3

asym\_bcm\_dg\_us\_bcm\_an\_us\_agg\_dd\_rms vs slug



Right In: 24.866+/-0.012  $\chi^2/\text{NDF}$ : 3094.9/2

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

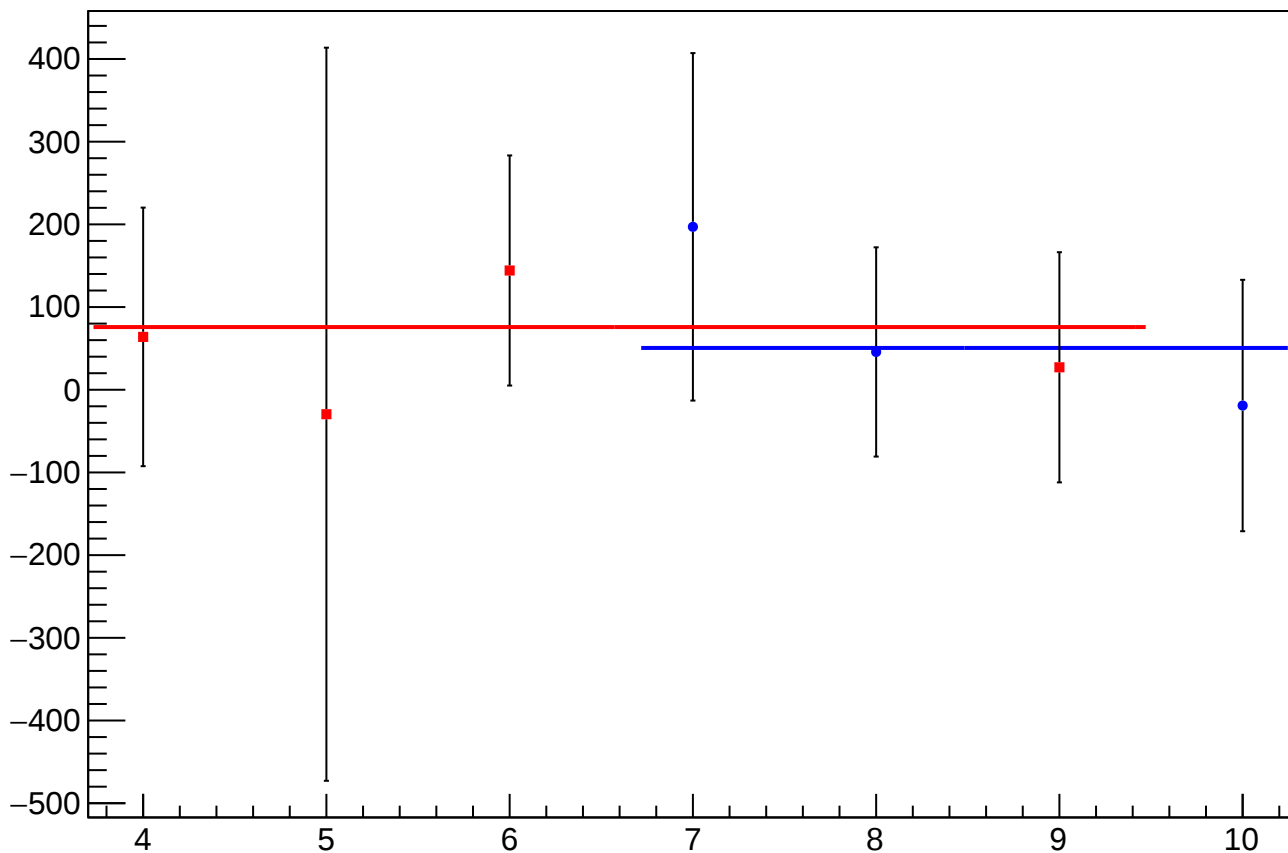
Right Out: 25.120+/-0.013  $\chi^2/\text{NDF}$ : 1215.1/3

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

24.866+/-0.012  $\chi^2/\text{NDF}$ : 3094.9/2

25.120+/-0.013  $\chi^2/\text{NDF}$ : 1215.1/3

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_mean vs slug



Right In: 50.567+/-88.250  $\chi^2/\text{NDF}$ : 0.7/2

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

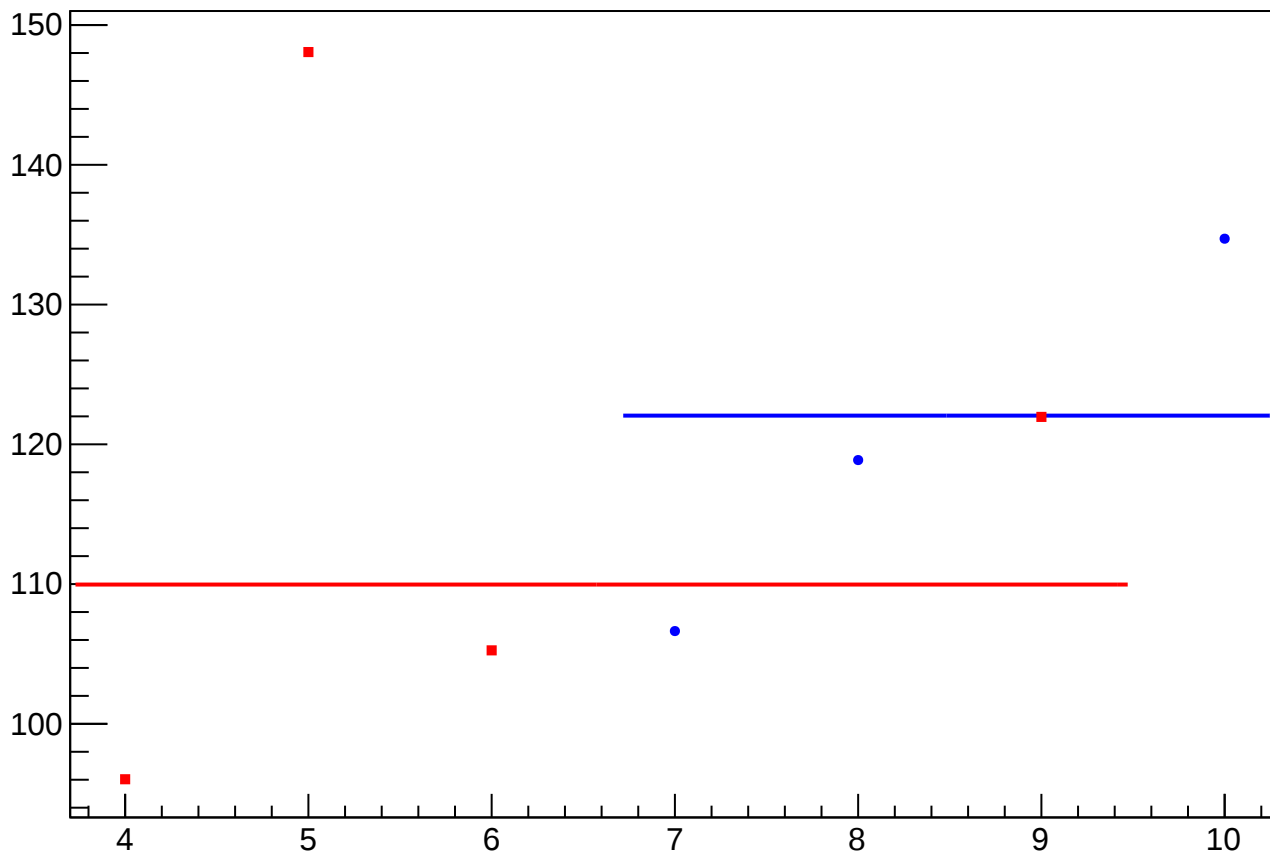
Right Out: 75.802+/-81.845  $\chi^2/\text{NDF}$ : 0.4/3

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

50.567+/-88.250  $\chi^2/\text{NDF}$ : 0.7/2

75.802+/-81.845  $\chi^2/\text{NDF}$ : 0.4/3

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_avg\_rms vs slug



Right In: 122.054+/-0.062  $\chi^2/\text{NDF}$ : 25902.6/2

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

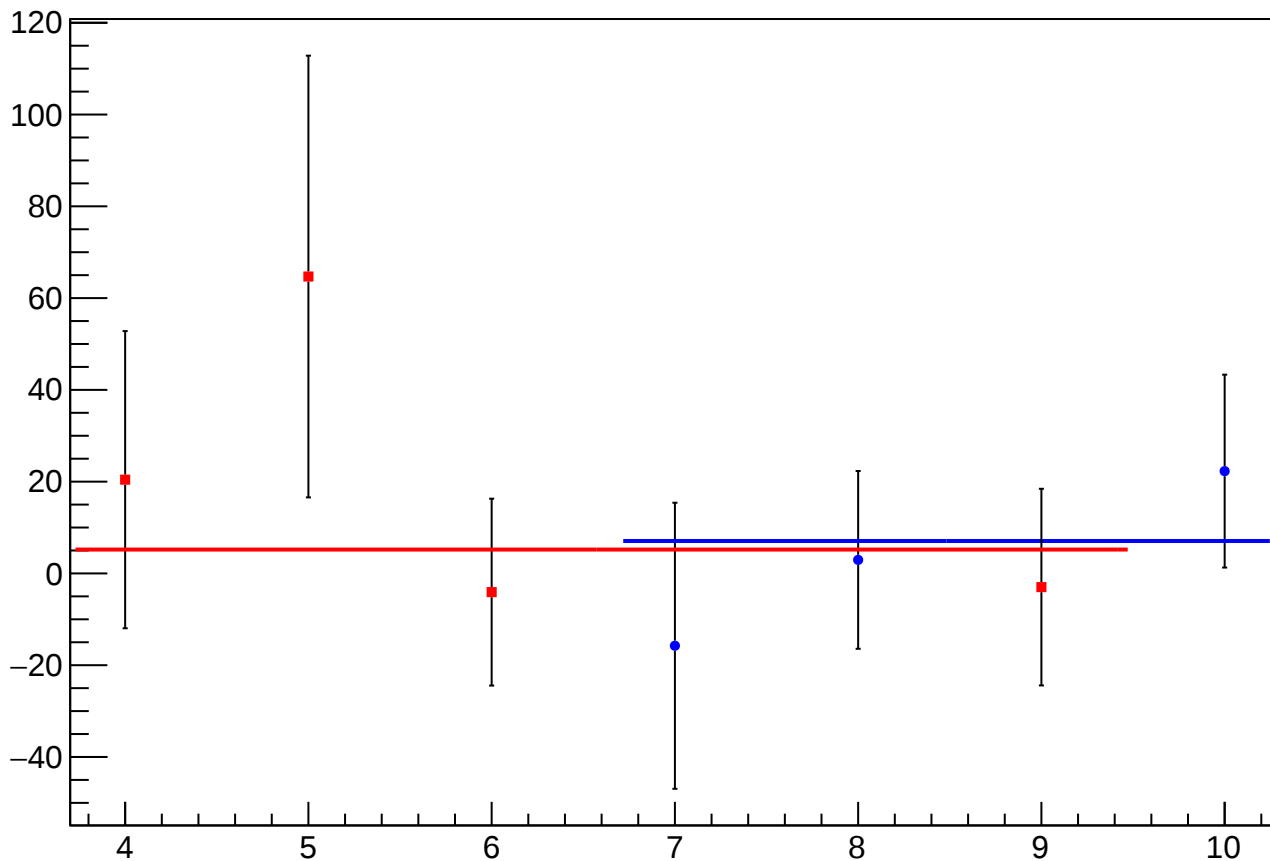
122.054+/-0.062  $\chi^2/\text{NDF}$ : 25902.6/2

Right Out: 109.966+/-0.058  $\chi^2/\text{NDF}$ : 47808.0/3

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

109.966+/-0.058  $\chi^2/\text{NDF}$ : 47808.0/3

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_mean vs slug



Right In: 7.067+/-12.956  $\chi^2/\text{NDF}$ : 1.1/2

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

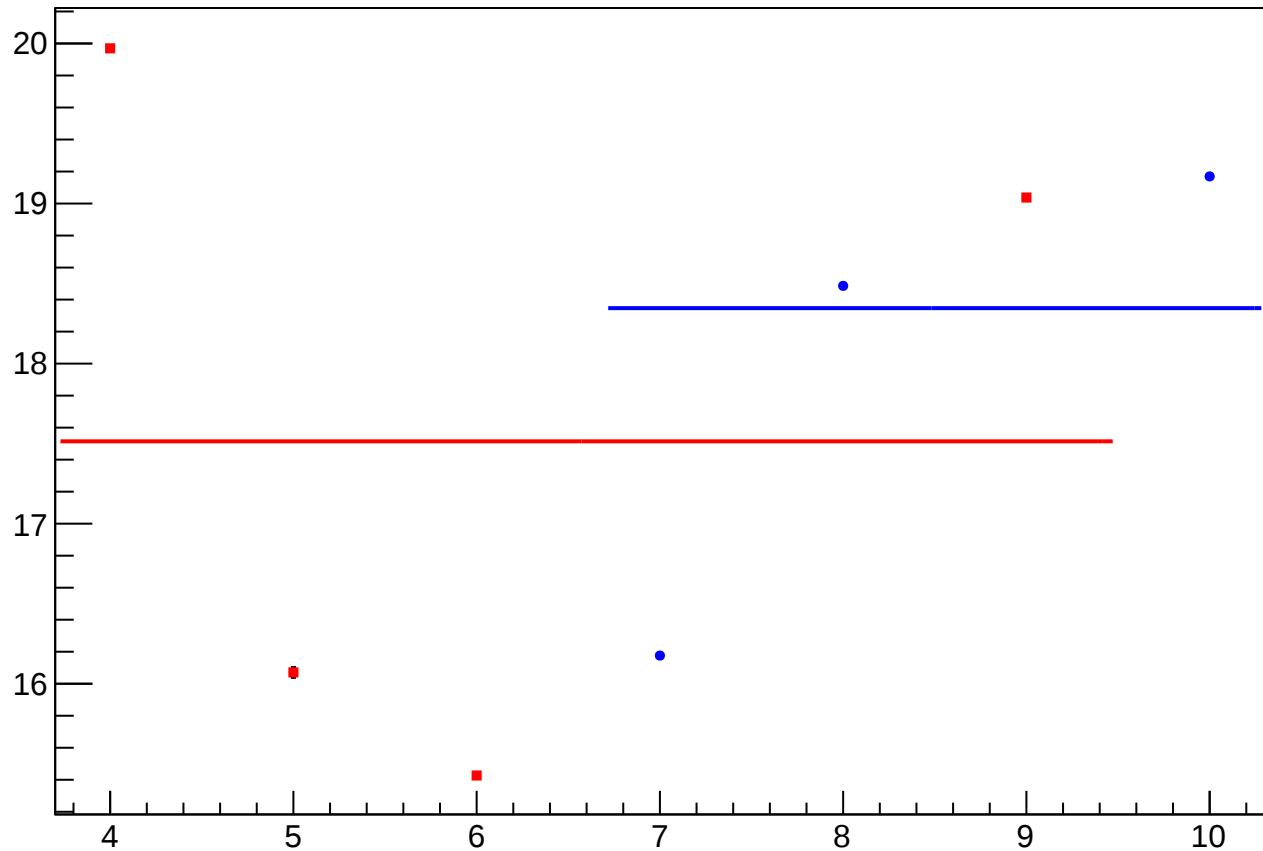
Right Out: 5.203+/-12.936  $\chi^2/\text{NDF}$ : 2.1/3

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

7.067+/-12.956  $\chi^2/\text{NDF}$ : 1.1/2

5.203+/-12.936  $\chi^2/\text{NDF}$ : 2.1/3

asym\_bcm\_dg\_ds\_bcm\_an\_us\_agg\_dd\_rms vs slug



Right In: 18.347+/-0.009  $\chi^2/\text{NDF}$ : 12868.4/2

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

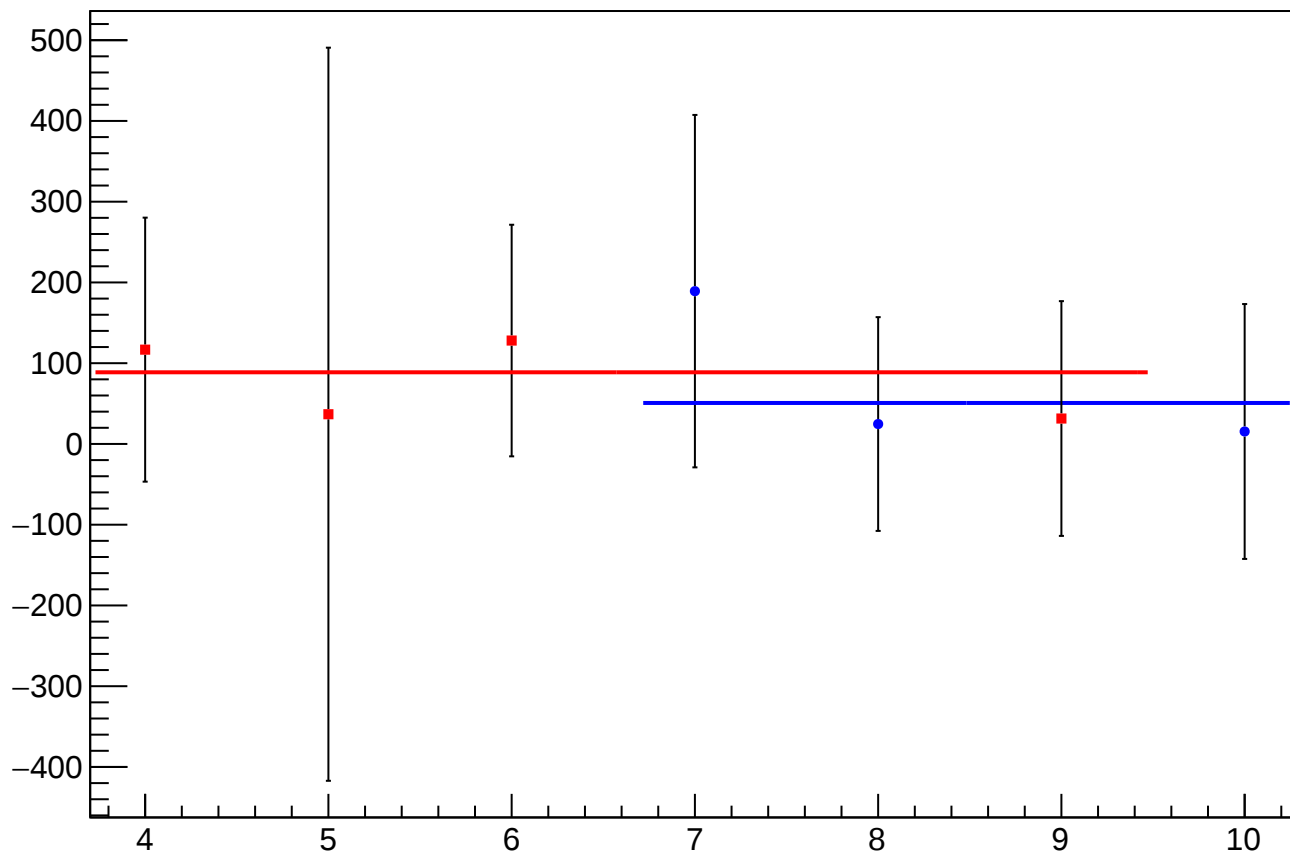
Right Out: 17.514+/-0.009  $\chi^2/\text{NDF}$ : 44432.1/3

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

18.347+/-0.009  $\chi^2/\text{NDF}$ : 12868.4/2

17.514+/-0.009  $\chi^2/\text{NDF}$ : 44432.1/3

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_mean vs slug



Right In: 50.755+/-91.966  $\chi^2/\text{NDF}$ : 0.5/2

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

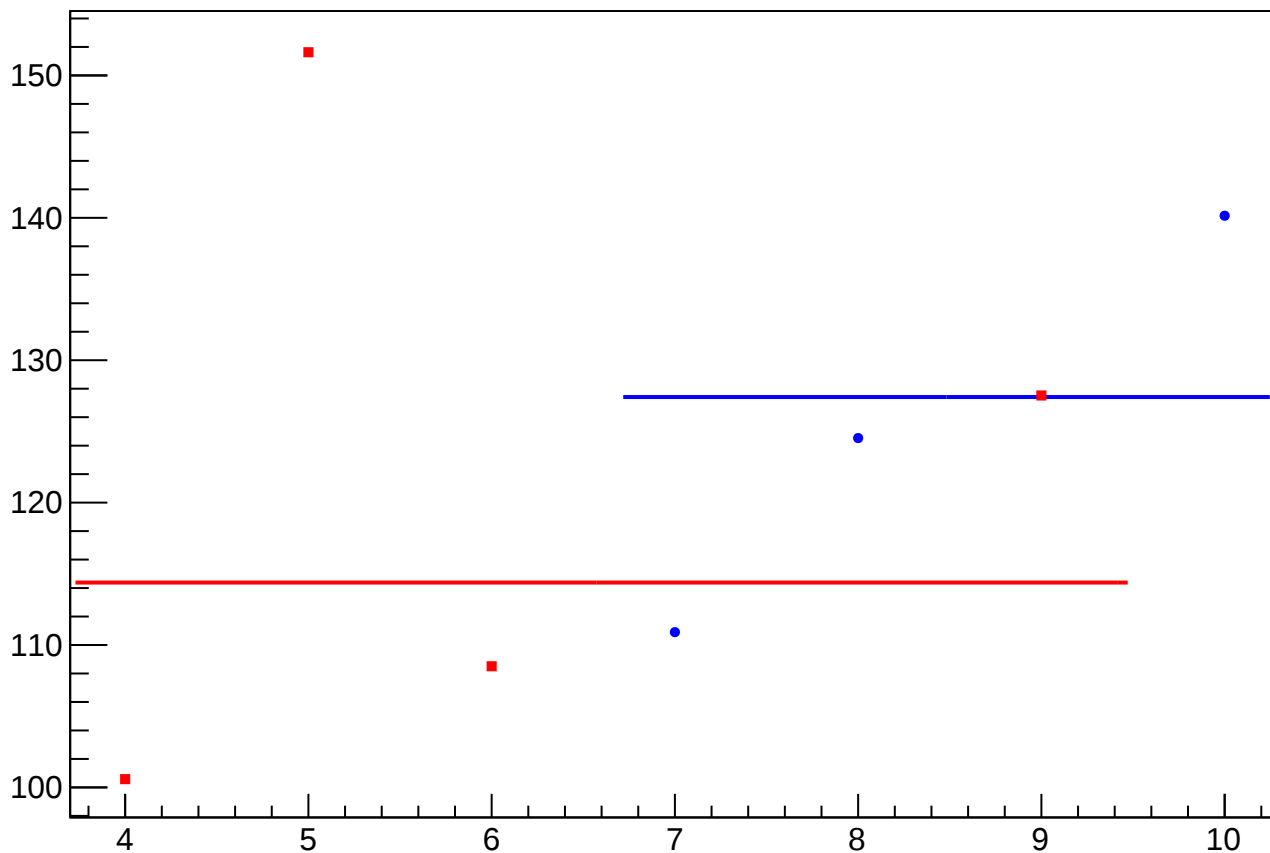
Right Out: 88.727+/-85.053  $\chi^2/\text{NDF}$ : 0.3/3

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

50.755+/-91.966  $\chi^2/\text{NDF}$ : 0.5/2

88.727+/-85.053  $\chi^2/\text{NDF}$ : 0.3/3

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_avg\_rms vs slug



Right In: 127.415+/-0.065  $\chi^2/\text{NDF}$ : 25417.0/2

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

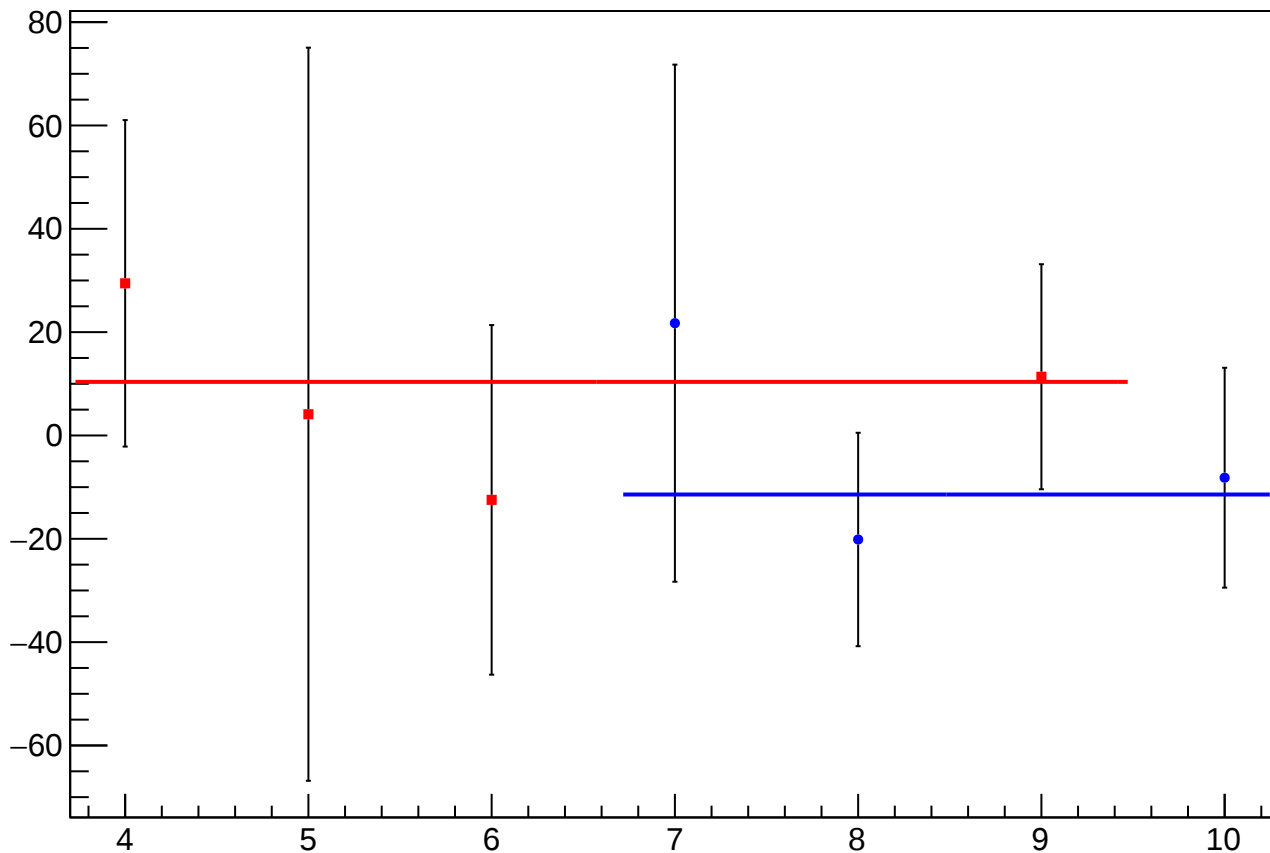
Right Out: 114.386+/-0.060  $\chi^2/\text{NDF}$ : 47426.0/3

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

127.415+/-0.065  $\chi^2/\text{NDF}$ : 25417.0/2

114.386+/-0.060  $\chi^2/\text{NDF}$ : 47426.0/3

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_mean vs slug



Right In: -11.424 $\pm$ 14.210  $\chi^2$ /NDF: 0.6/2

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

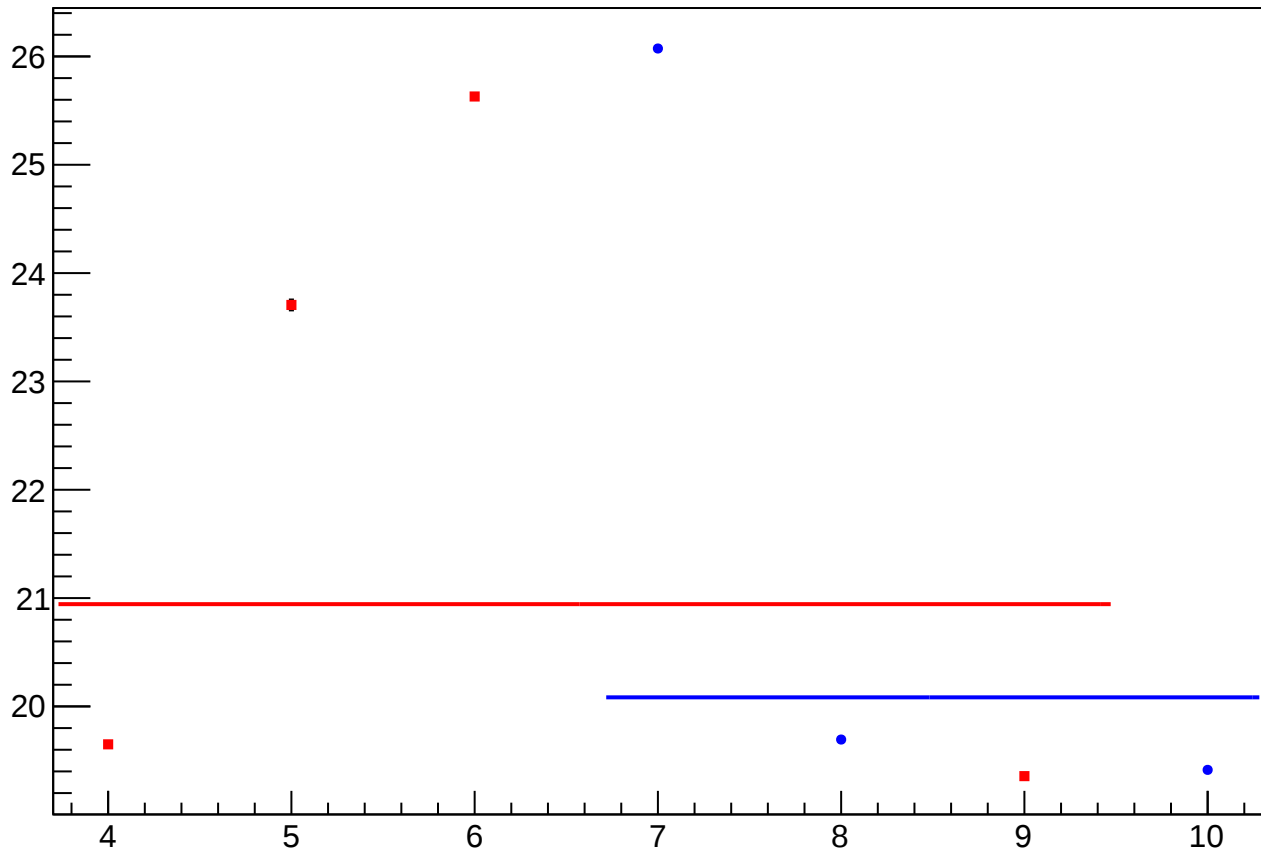
Right Out: 10.374 $\pm$ 15.463  $\chi^2$ /NDF: 0.8/3

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

-11.424 $\pm$ 14.210  $\chi^2$ /NDF: 0.6/2

10.374 $\pm$ 15.463  $\chi^2$ /NDF: 0.8/3

asym\_bcm\_dg\_us\_bcm\_dg\_ds\_agg\_dd\_rms vs slug



Right In: 20.084+/-0.010  $\chi^2/\text{NDF}$ : 31340.5/2

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

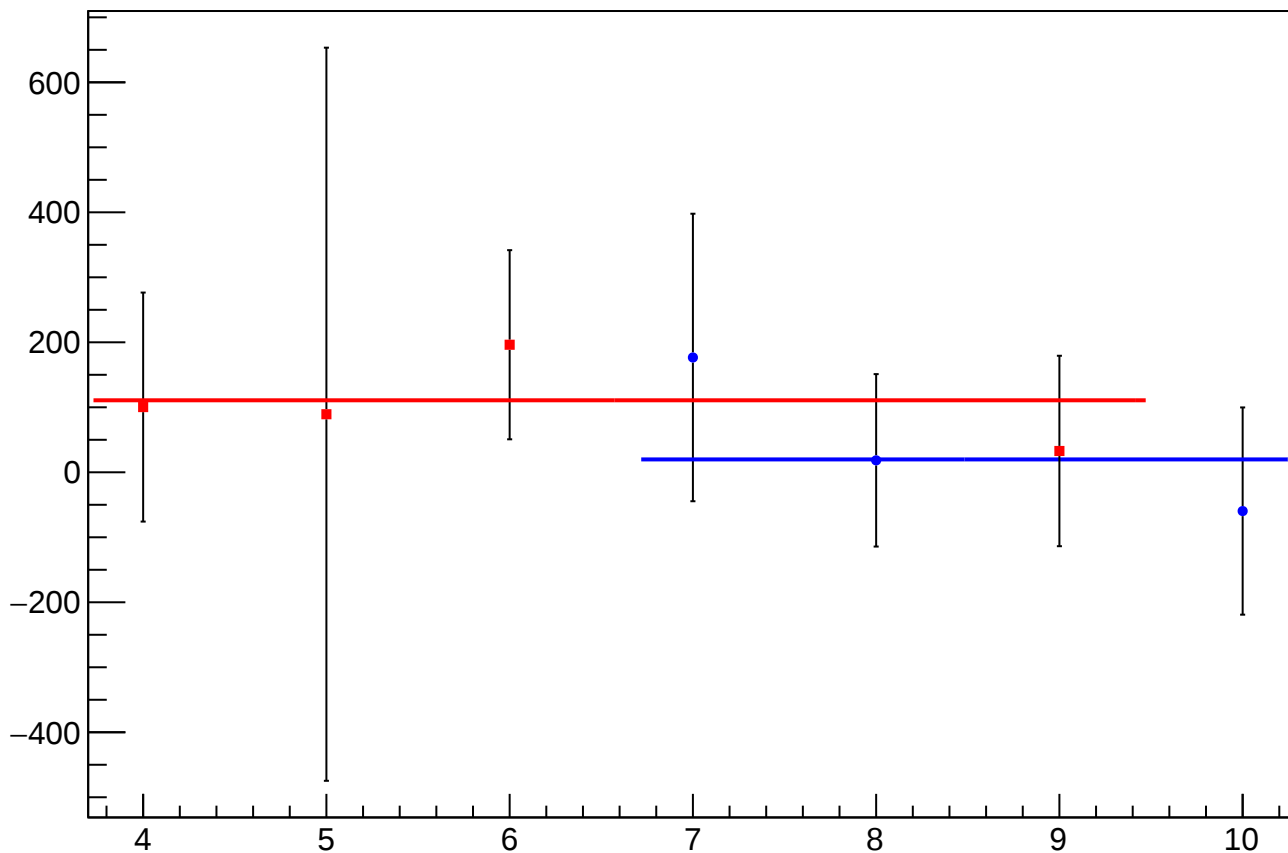
20.084+/-0.010  $\chi^2/\text{NDF}$ : 31340.5/2

Right Out: 20.944+/-0.011  $\chi^2/\text{NDF}$ : 55386.3/3

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

20.944+/-0.011  $\chi^2/\text{NDF}$ : 55386.3/3

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_mean vs slug



Right In: 19.799 $\pm$ 92.604  $\chi^2$ /NDF: 0.8/2

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

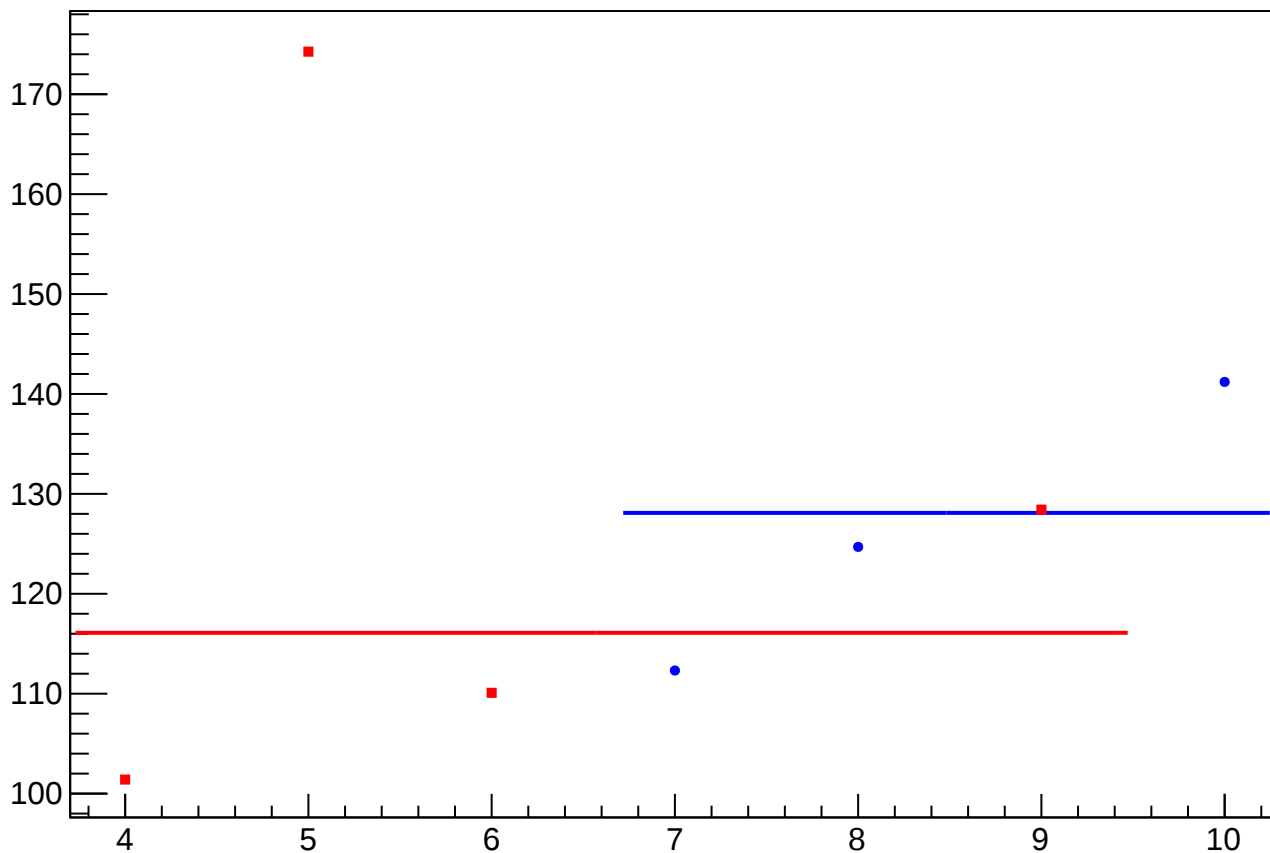
Right Out: 110.771 $\pm$ 87.986  $\chi^2$ /NDF: 0.6/3

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

19.799 $\pm$ 92.604  $\chi^2$ /NDF: 0.8/2

110.771 $\pm$ 87.986  $\chi^2$ /NDF: 0.6/3

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_avg\_rms vs slug



Right In: 128.097+/-0.065  $\chi^2/\text{NDF}$ : 25016.0/2

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

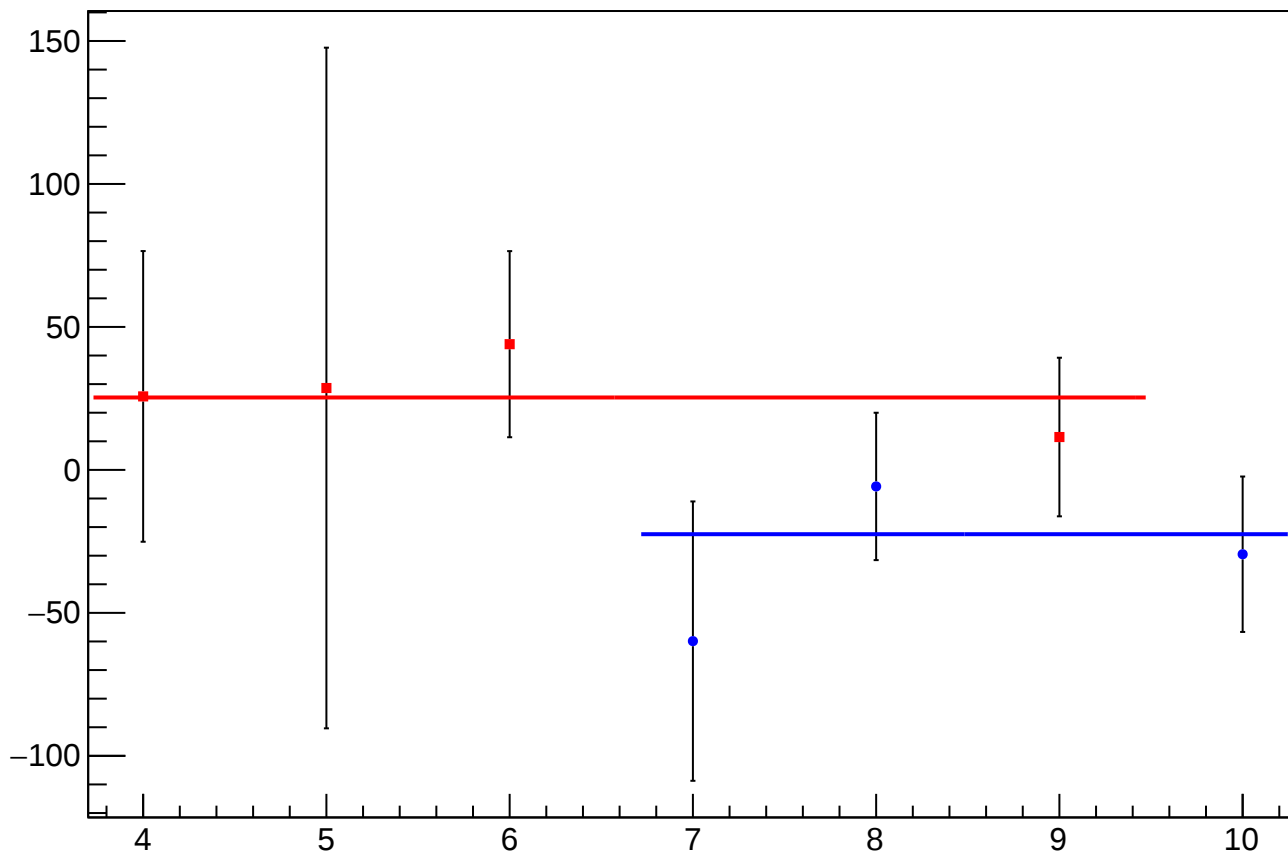
128.097+/-0.065  $\chi^2/\text{NDF}$ : 25016.0/2

Right Out: 116.097+/-0.062  $\chi^2/\text{NDF}$ : 52739.6/3

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

116.097+/-0.062  $\chi^2/\text{NDF}$ : 52739.6/3

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_mean vs slug



Right In: -22.486±-17.464  $\chi^2/\text{NDF}$ : 1.1/2

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

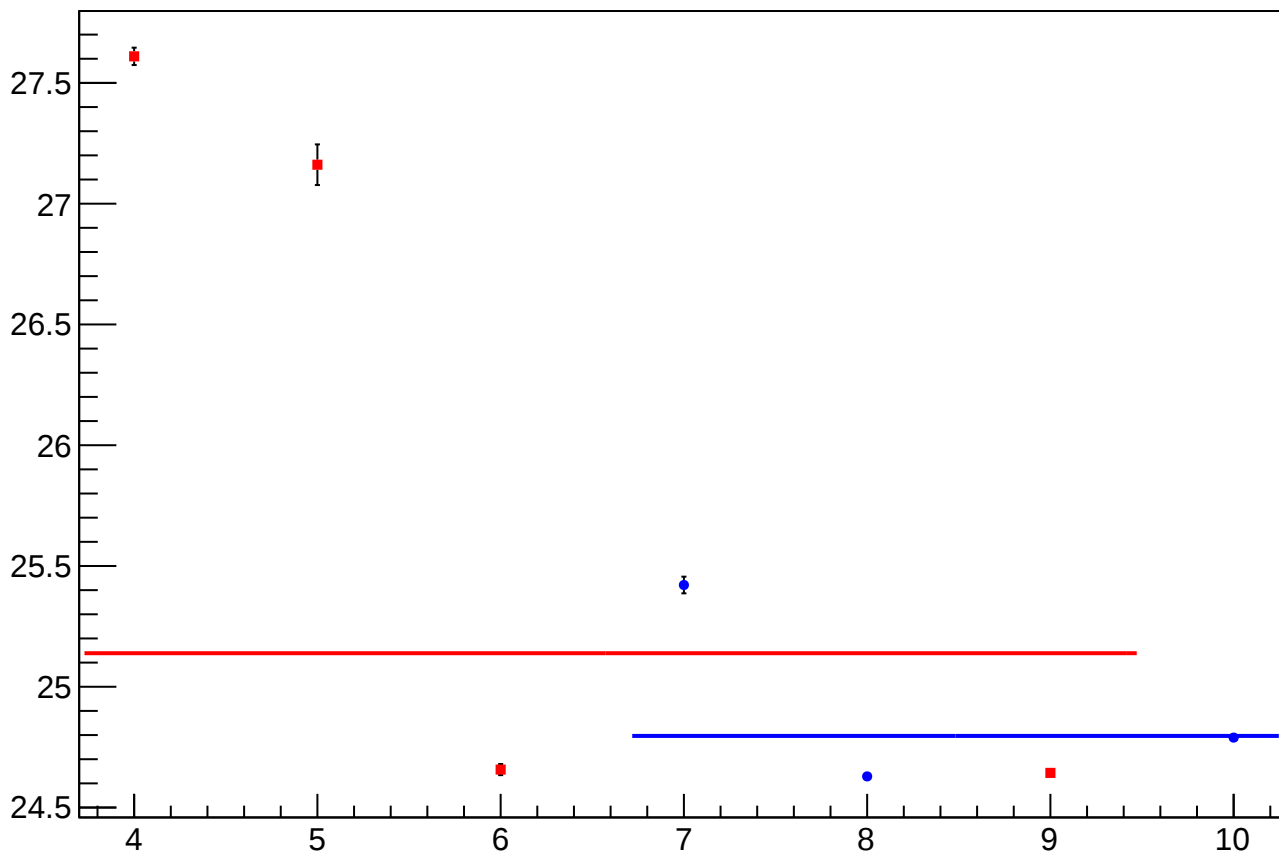
Right Out: 25.327±-19.238  $\chi^2/\text{NDF}$ : 0.6/3

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

-22.486±-17.464  $\chi^2/\text{NDF}$ : 1.1/2

25.327±-19.238  $\chi^2/\text{NDF}$ : 0.6/3

asym\_bcm\_cav4cQ\_bcm\_an\_us\_agg\_dd\_rms vs slug



Right In: 24.796+/-0.012  $\chi^2/\text{NDF}$ : 411.9/2

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

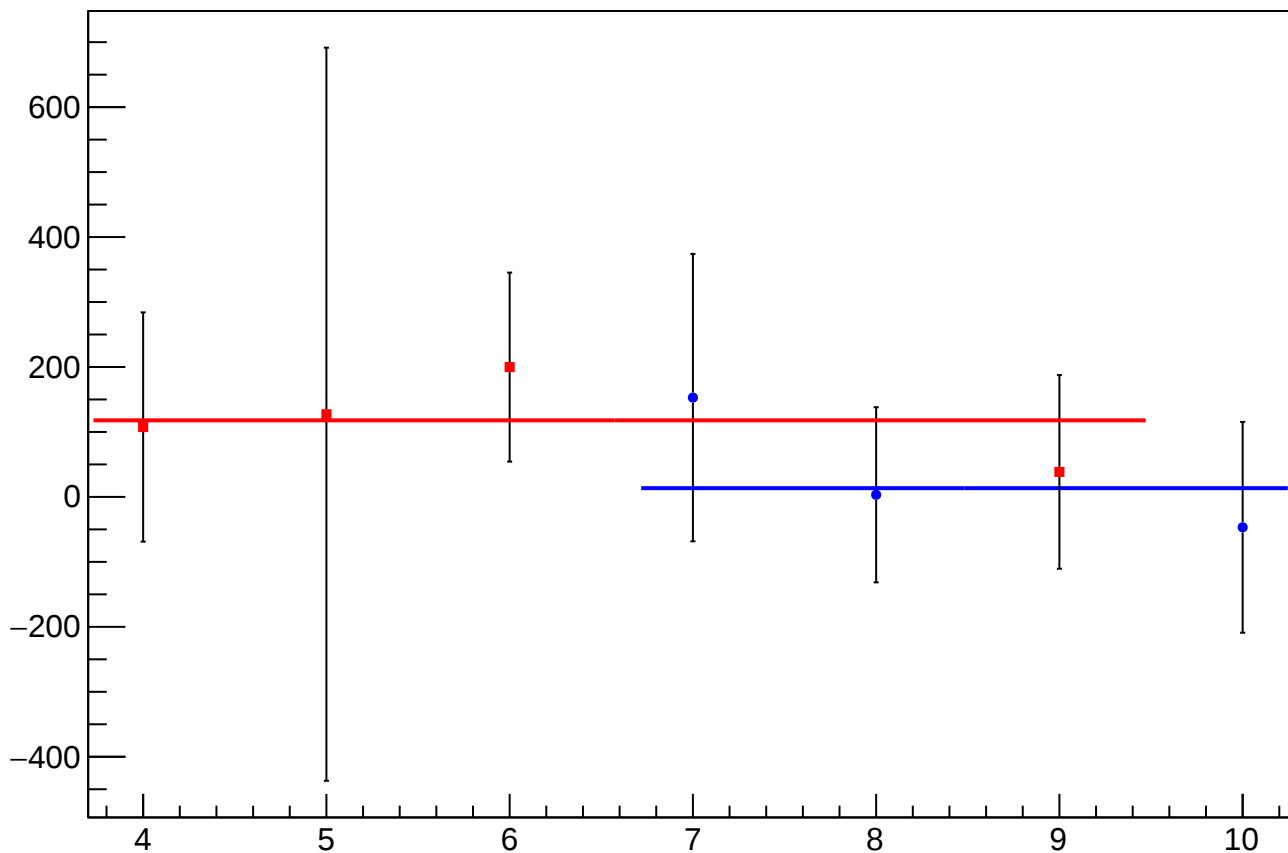
24.796+/-0.012  $\chi^2/\text{NDF}$ : 411.9/2

Right Out: 25.139+/-0.014  $\chi^2/\text{NDF}$ : 6380.8/3

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

25.139+/-0.014  $\chi^2/\text{NDF}$ : 6380.8/3

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_mean vs slug



Right In: 13.466+/-93.883  $\chi^2/\text{NDF}$ : 0.5/2

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

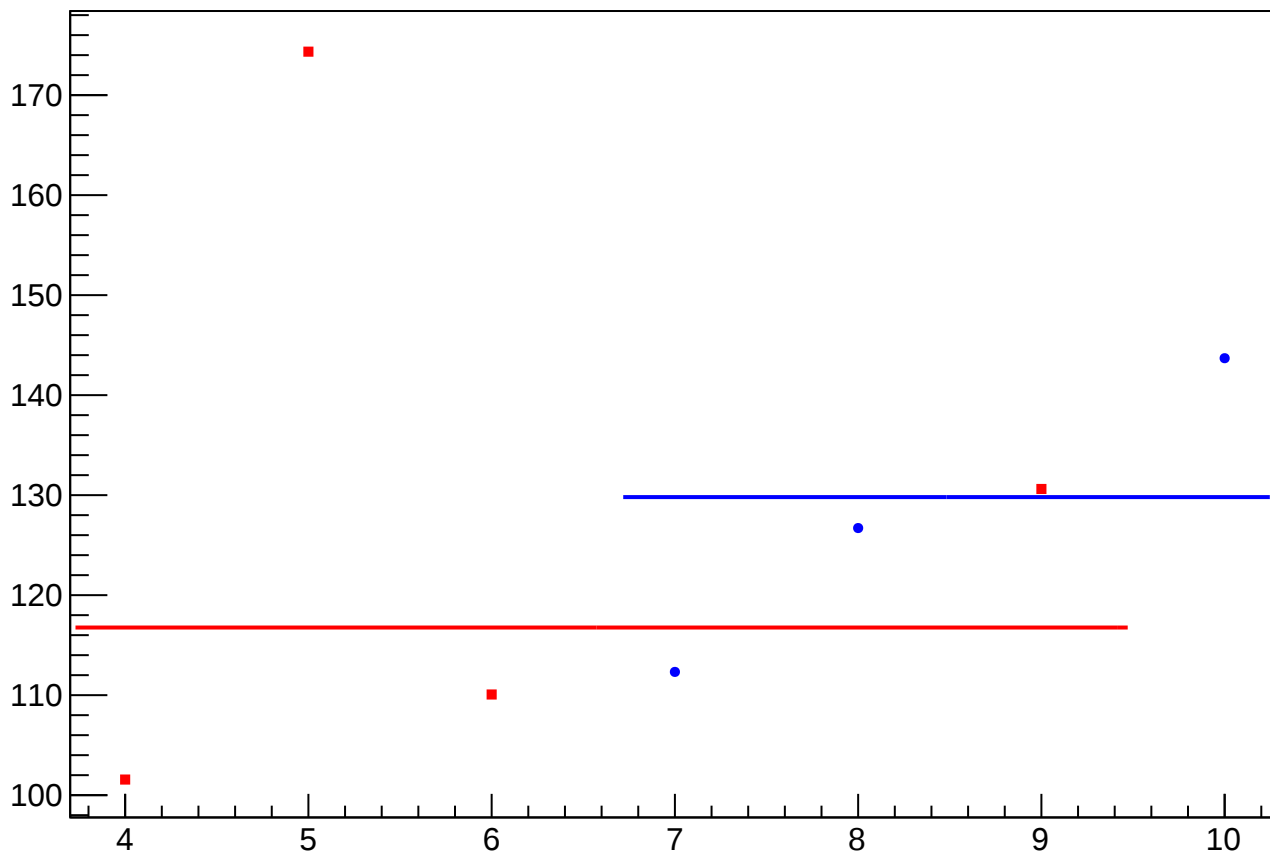
13.466+/-93.883  $\chi^2/\text{NDF}$ : 0.5/2

Right Out: 117.855+/-88.550  $\chi^2/\text{NDF}$ : 0.6/3

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

117.855+/-88.550  $\chi^2/\text{NDF}$ : 0.6/3

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs slug



Right In: 129.806 $\pm$ 0.066  $\chi^2$ /NDF: 28200.8/2

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

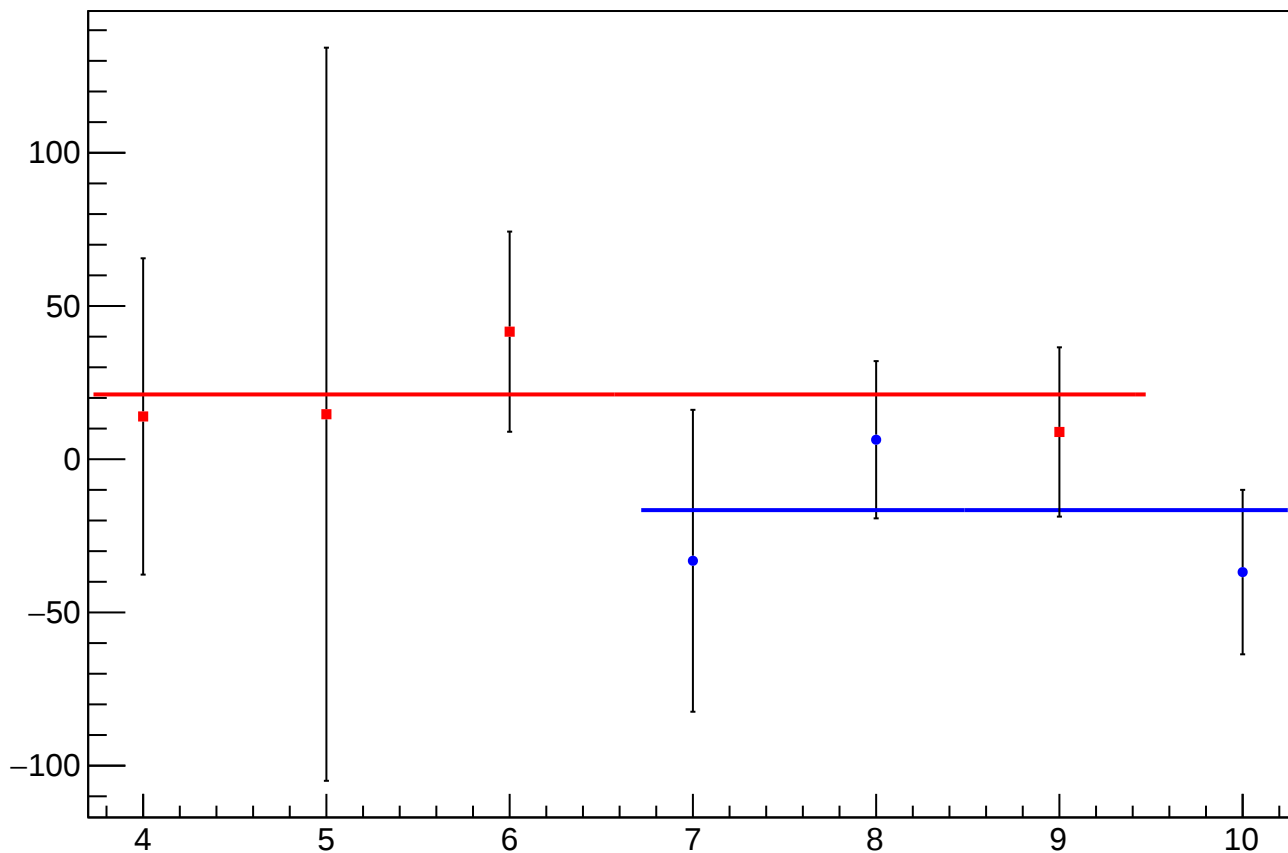
129.806 $\pm$ 0.066  $\chi^2$ /NDF: 28200.8/2

Right Out: 116.764 $\pm$ 0.063  $\chi^2$ /NDF: 57196.4/3

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

116.764 $\pm$ 0.063  $\chi^2$ /NDF: 57196.4/3

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs slug



Right In: -16.609 $\pm$ 17.354  $\chi^2$ /NDF: 1.5/2

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

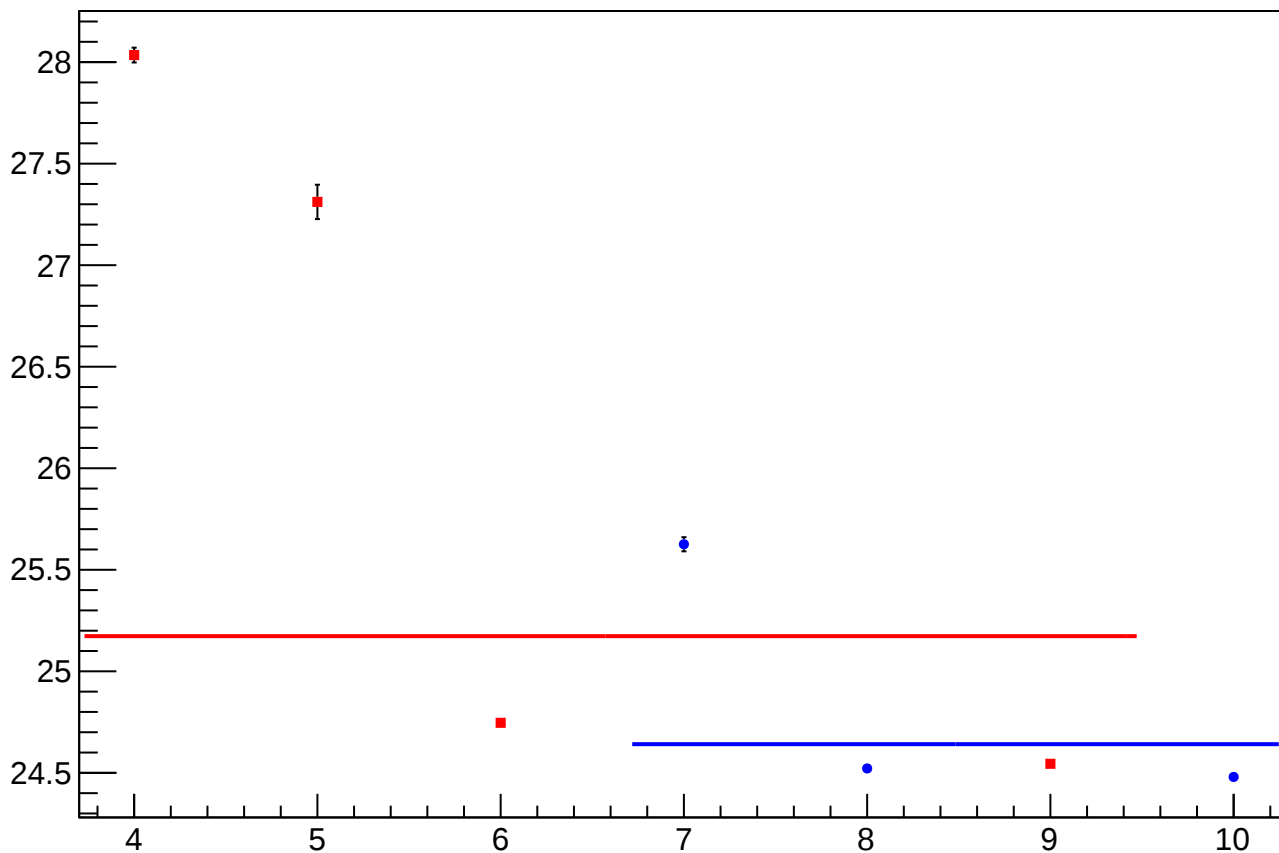
Right Out: 21.141 $\pm$ 19.269  $\chi^2$ /NDF: 0.6/3

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

-16.609 $\pm$ 17.354  $\chi^2$ /NDF: 1.5/2

21.141 $\pm$ 19.269  $\chi^2$ /NDF: 0.6/3

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs slug



Right In: 24.641 $\pm$ 0.012  $\chi^2$ /NDF: 914.7/2

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

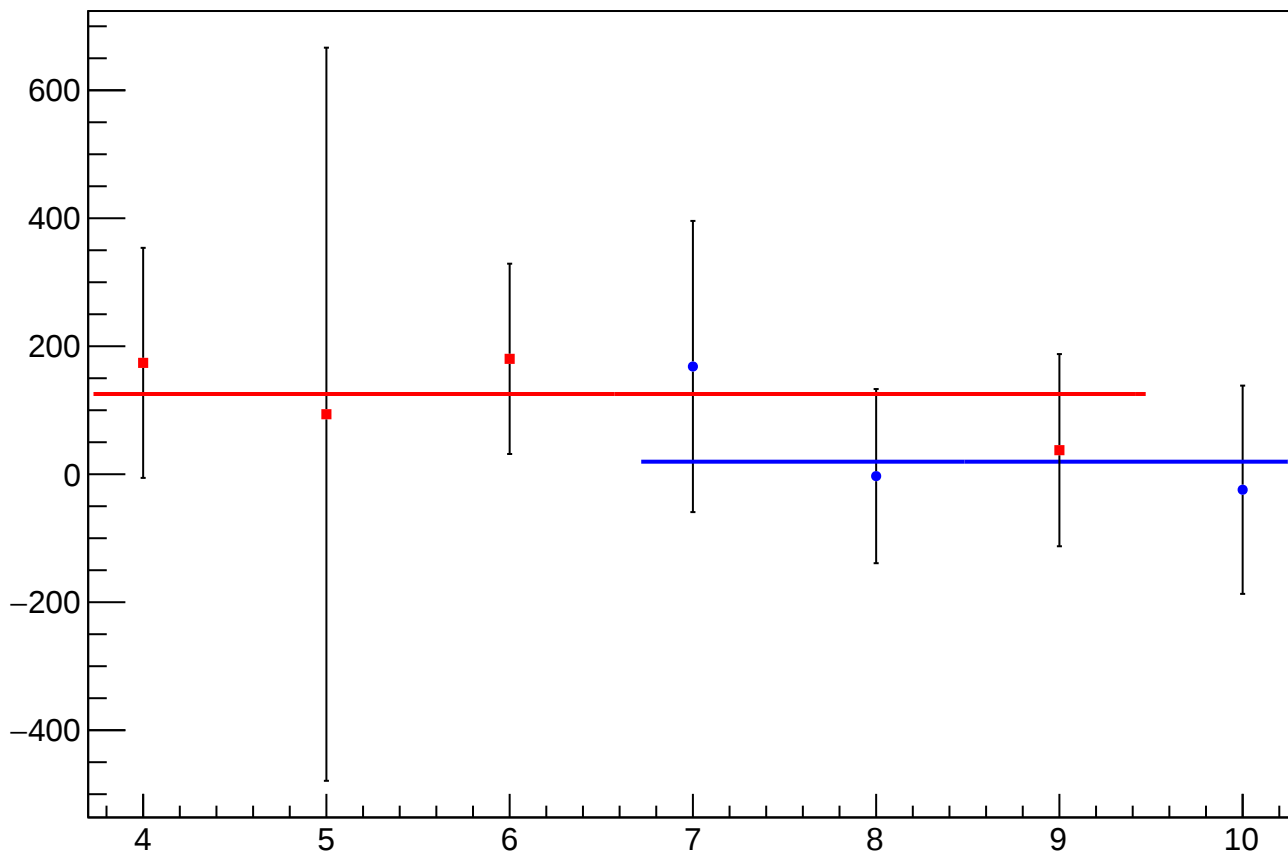
Right Out: 25.173 $\pm$ 0.014  $\chi^2$ /NDF: 8163.3/3

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

24.641 $\pm$ 0.012  $\chi^2$ /NDF: 914.7/2

25.173 $\pm$ 0.014  $\chi^2$ /NDF: 8163.3/3

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_mean vs slug



Right In: 19.606+/-94.879  $\chi^2/\text{NDF}$ : 0.5/2

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

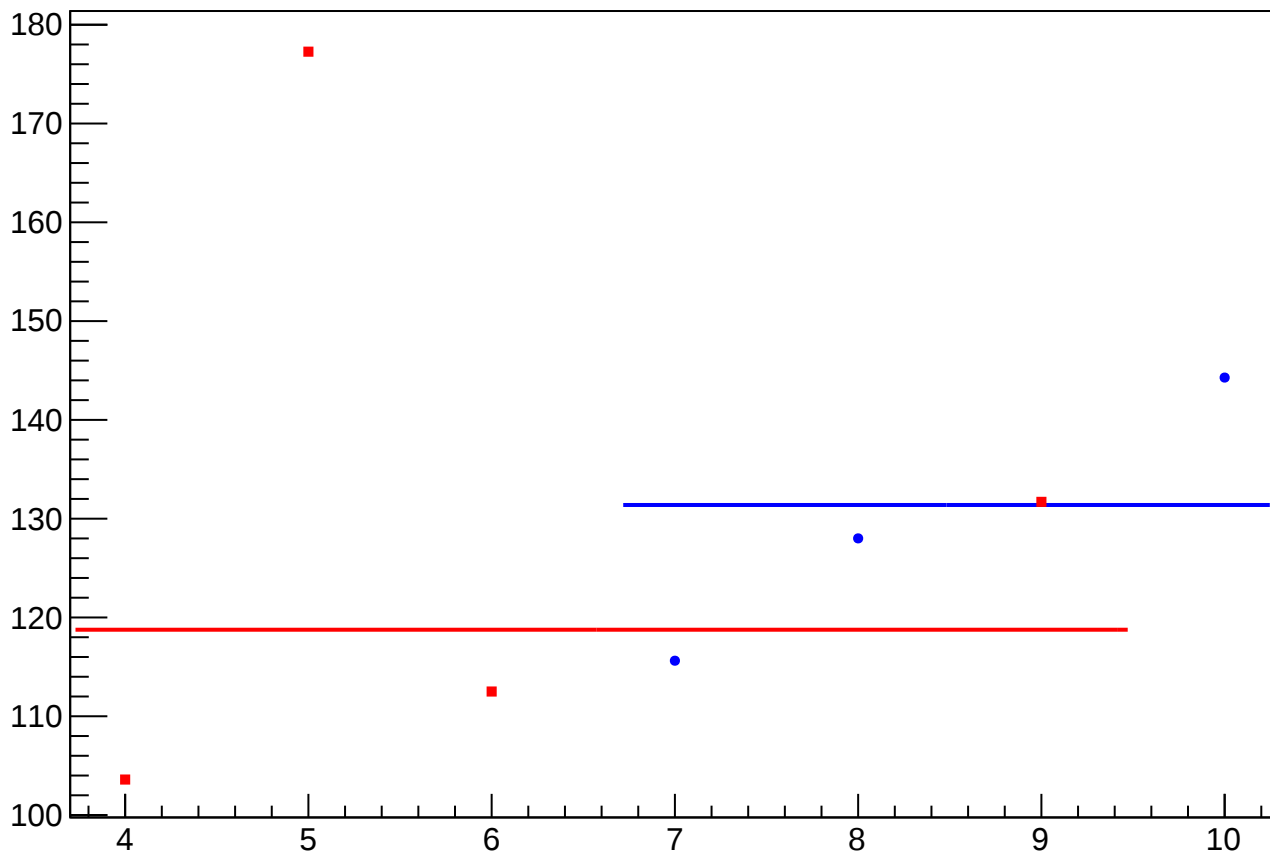
Right Out: 125.383+/-89.955  $\chi^2/\text{NDF}$ : 0.6/3

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

19.606+/-94.879  $\chi^2/\text{NDF}$ : 0.5/2

125.383+/-89.955  $\chi^2/\text{NDF}$ : 0.6/3

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs slug



Right In: 131.387 $\pm$ 0.067  $\chi^2$ /NDF: 23399.6/2

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

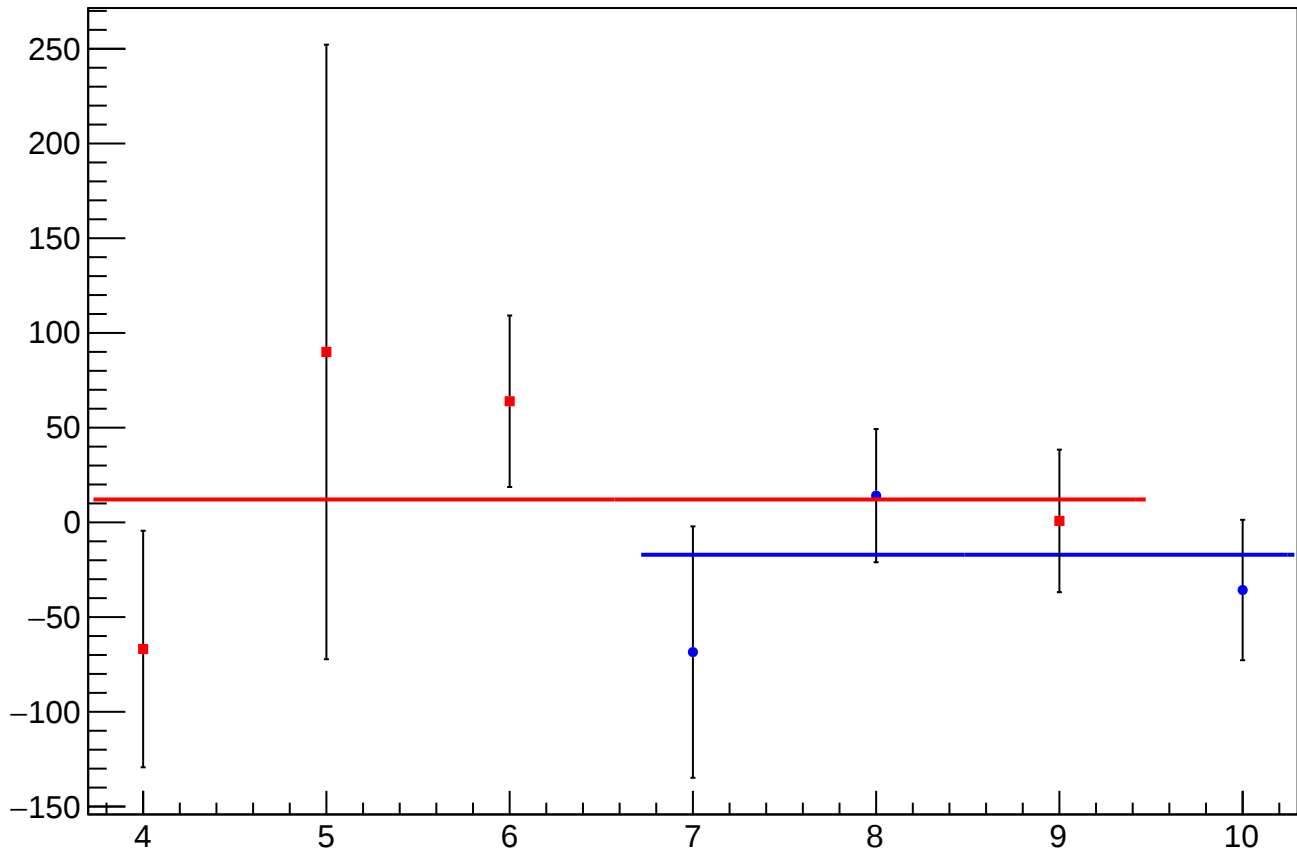
131.387 $\pm$ 0.067  $\chi^2$ /NDF: 23399.6/2

Right Out: 118.760 $\pm$ 0.064  $\chi^2$ /NDF: 53503.4/3

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

118.760 $\pm$ 0.064  $\chi^2$ /NDF: 53503.4/3

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs slug



Right In: -17.089 $\pm$ 23.814  $\chi^2$ /NDF: 1.6/2

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

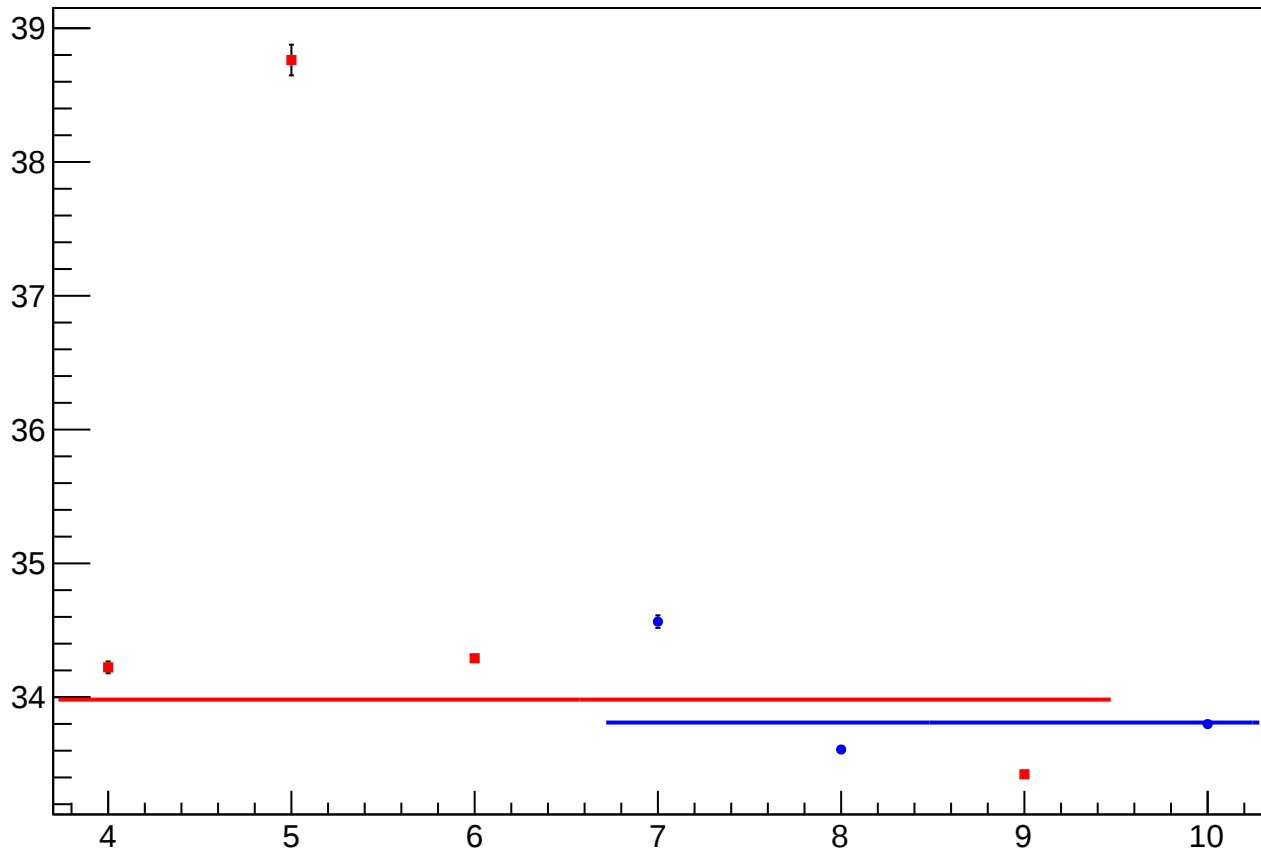
Right Out: 12.094 $\pm$ 25.913  $\chi^2$ /NDF: 3.2/3

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

-17.089 $\pm$ 23.814  $\chi^2$ /NDF: 1.6/2

12.094 $\pm$ 25.913  $\chi^2$ /NDF: 3.2/3

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs slug



Right In: 33.810+/-0.017  $\chi^2/\text{NDF}$ : 324.3/2

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

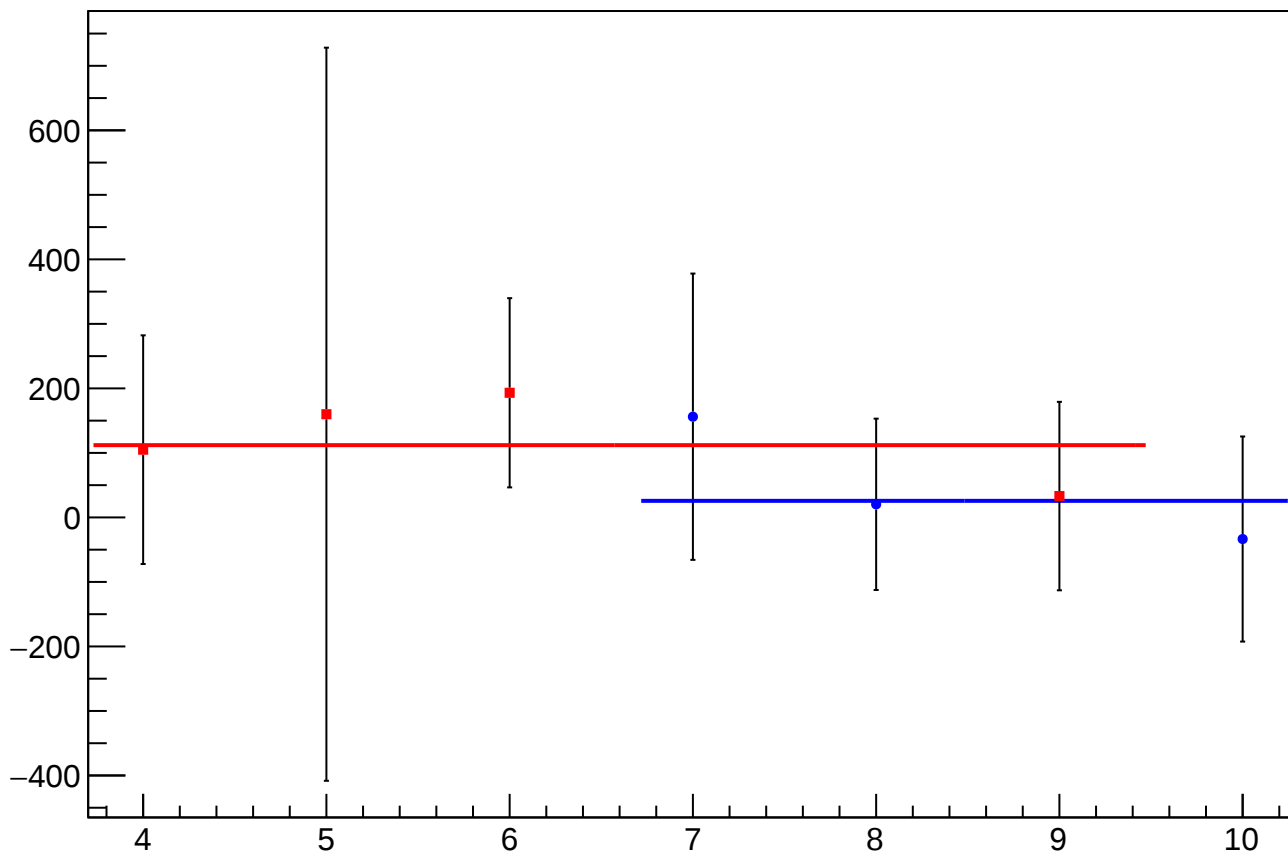
Right Out: 33.982+/-0.018  $\chi^2/\text{NDF}$ : 2300.2/3

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

33.810+/-0.017  $\chi^2/\text{NDF}$ : 324.3/2

33.982+/-0.018  $\chi^2/\text{NDF}$ : 2300.2/3

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_mean vs slug



Right In: 25.687 $\pm$ 92.606  $\chi^2$ /NDF: 0.5/2

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

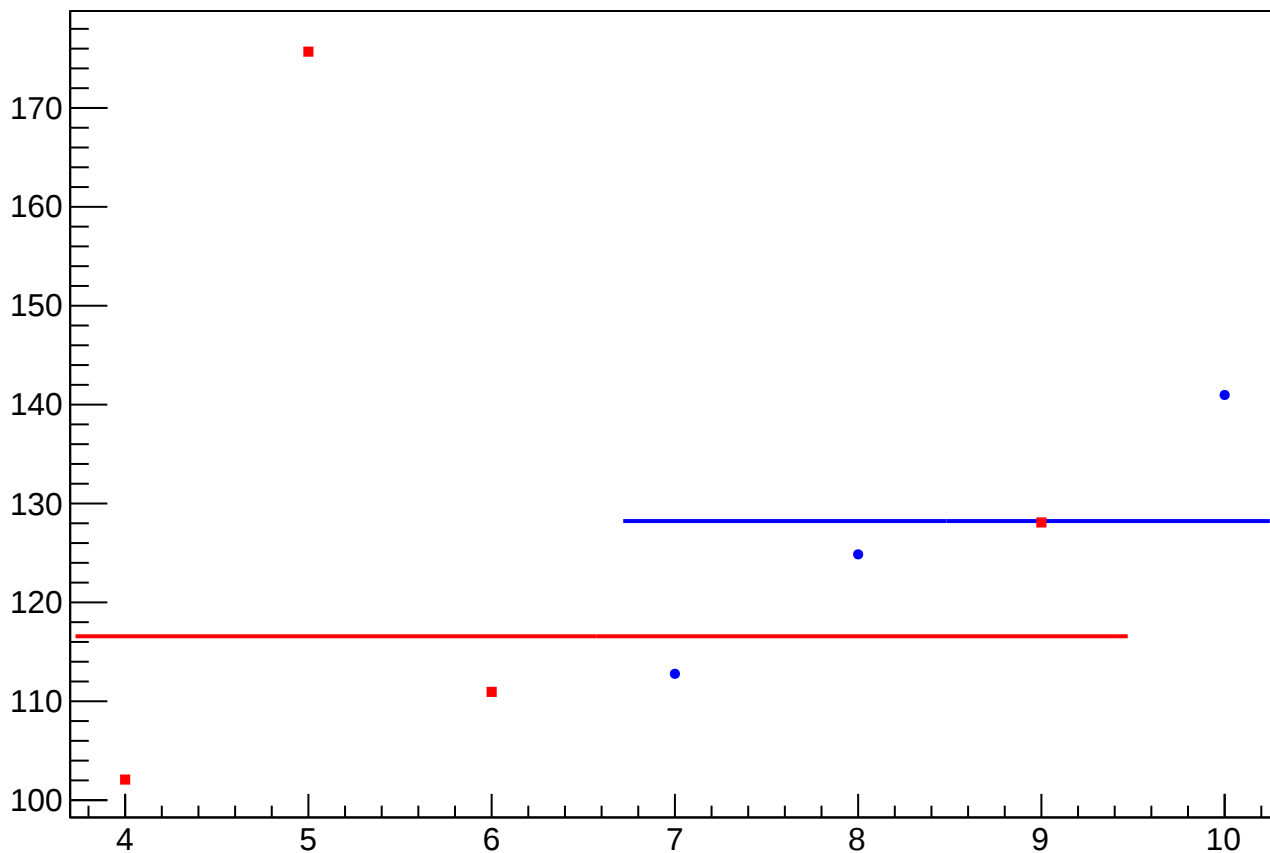
Right Out: 112.010 $\pm$ 88.282  $\chi^2$ /NDF: 0.6/3

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

25.687 $\pm$ 92.606  $\chi^2$ /NDF: 0.5/2

112.010 $\pm$ 88.282  $\chi^2$ /NDF: 0.6/3

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs slug



Right In: 128.226 $\pm$ 0.065  $\chi^2$ /NDF: 23846.6/2

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

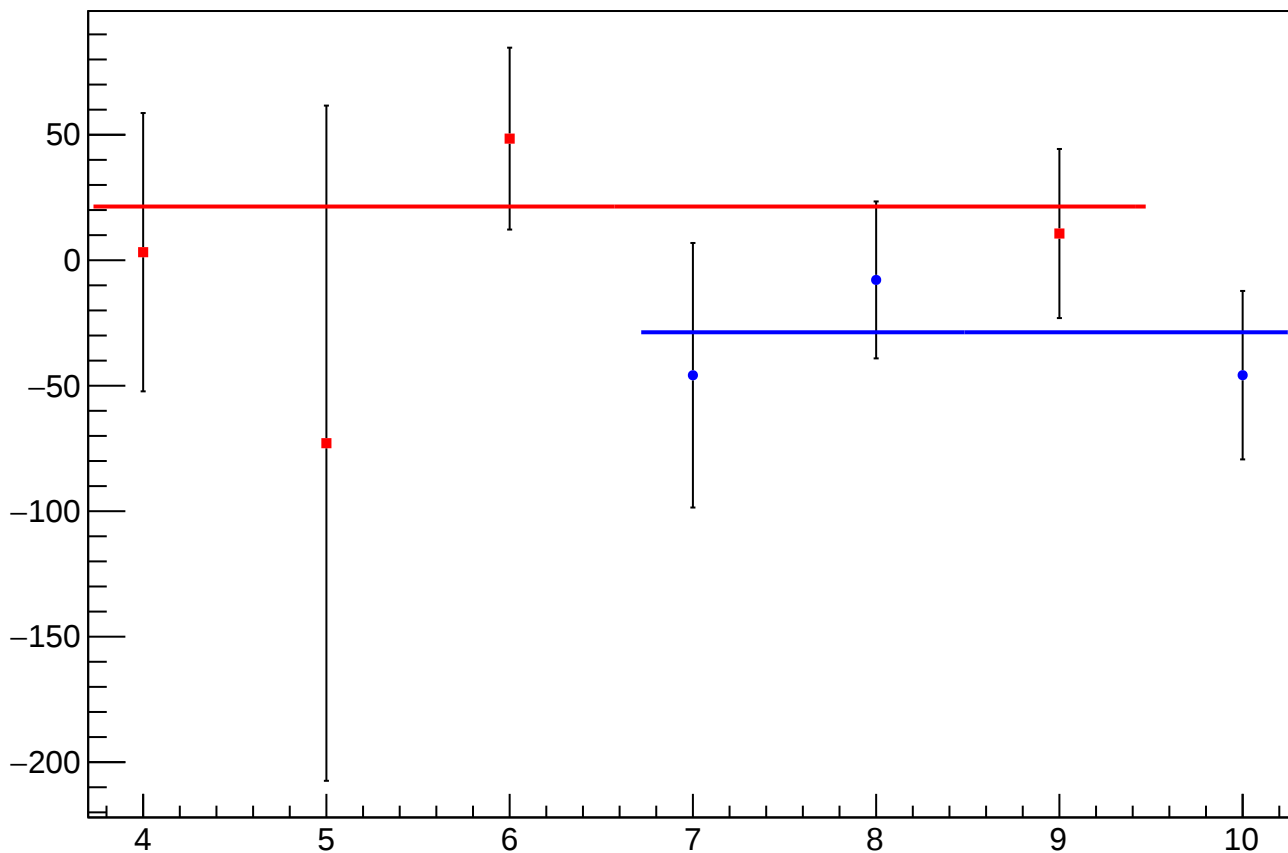
128.226 $\pm$ 0.065  $\chi^2$ /NDF: 23846.6/2

Right Out: 116.573 $\pm$ 0.062  $\chi^2$ /NDF: 50383.6/3

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

116.573 $\pm$ 0.062  $\chi^2$ /NDF: 50383.6/3

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs slug



Right In: -28.704 $\pm$ 20.986  $\chi^2$ /NDF: 0.8/2

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

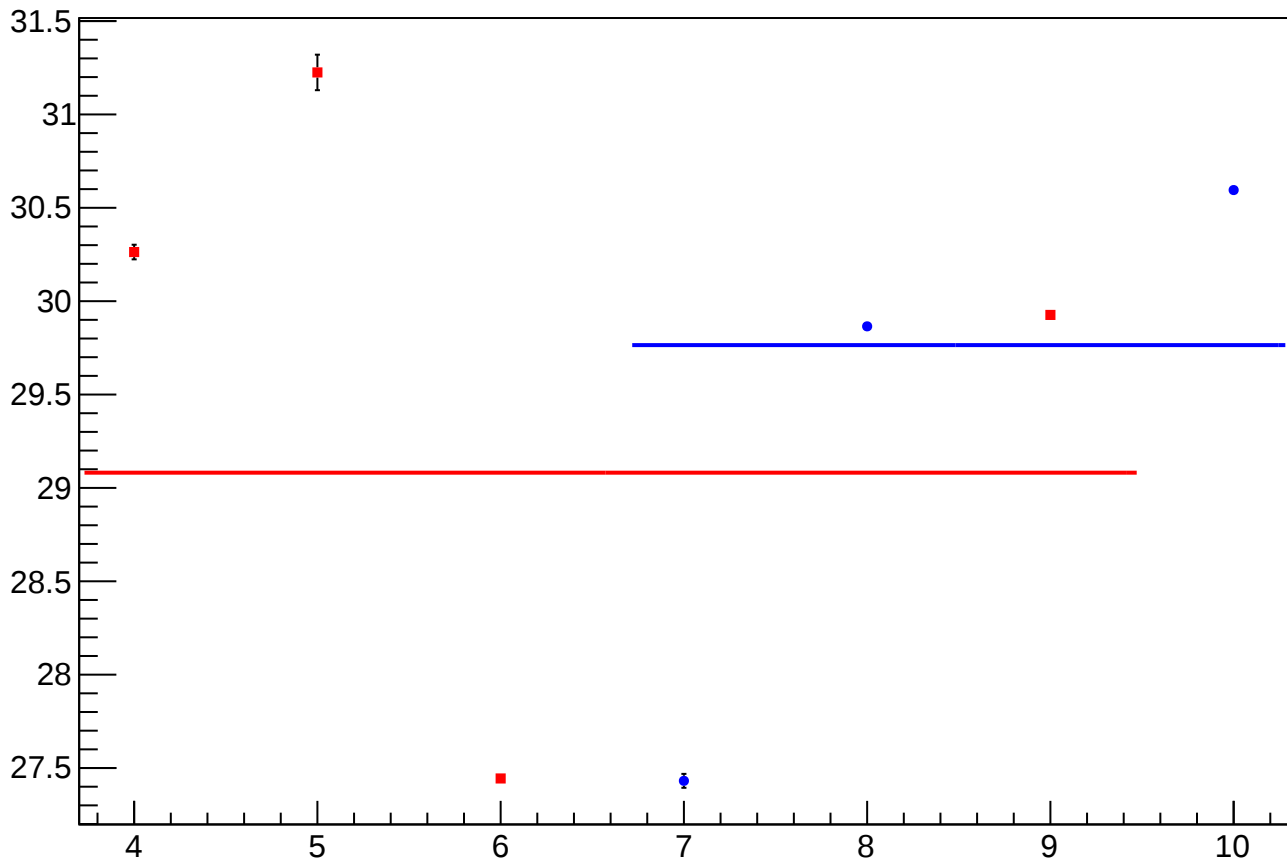
Right Out: 21.405 $\pm$ 22.233  $\chi^2$ /NDF: 1.3/3

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

-28.704 $\pm$ 20.986  $\chi^2$ /NDF: 0.8/2

21.405 $\pm$ 22.233  $\chi^2$ /NDF: 1.3/3

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs slug



Right In: 29.765+/-0.015  $\chi^2/\text{NDF}$ : 5164.3/2

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

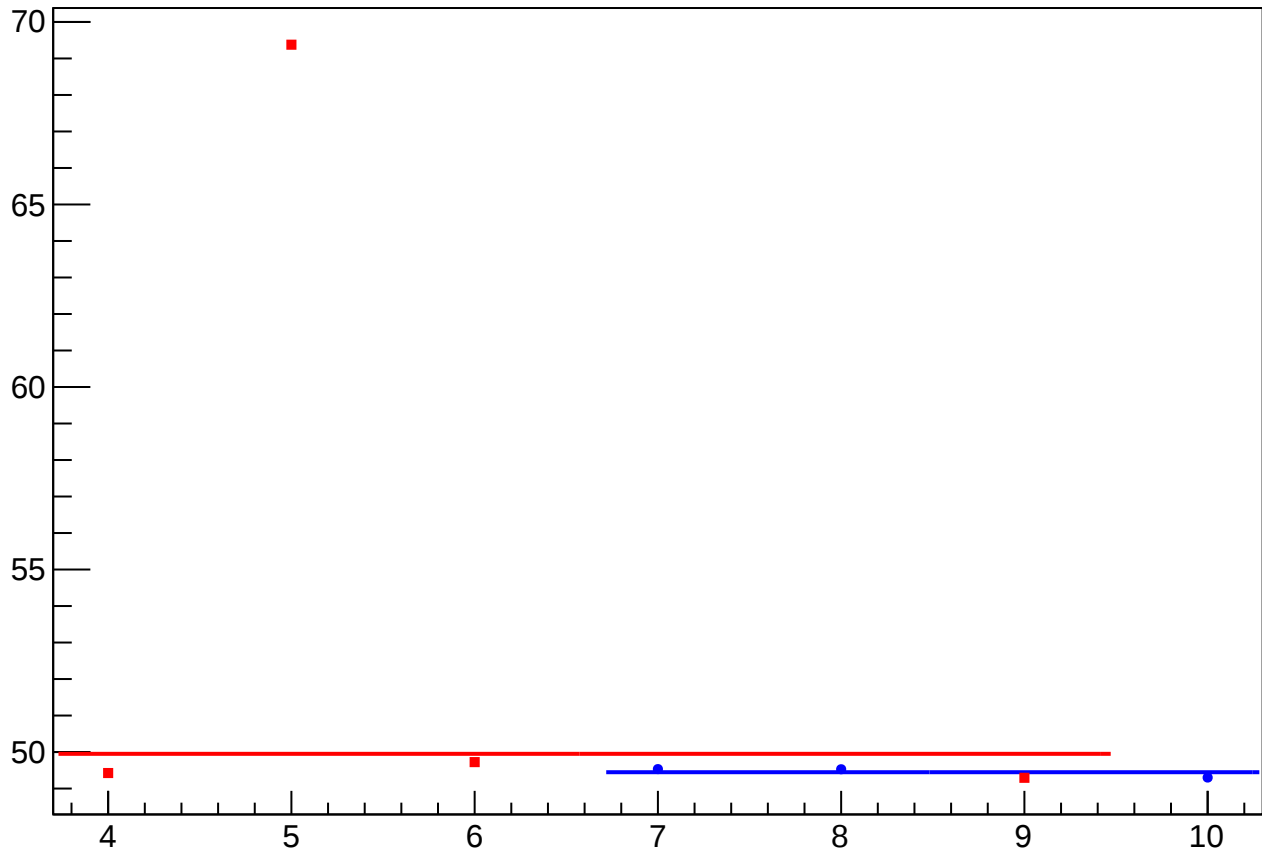
Right Out: 29.082+/-0.016  $\chi^2/\text{NDF}$ : 6756.9/3

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

29.765+/-0.015  $\chi^2/\text{NDF}$ : 5164.3/2

29.082+/-0.016  $\chi^2/\text{NDF}$ : 6756.9/3

# yield\_bcm\_an\_ds\_mean vs slug



Right In: 49.447+/-0.000  $\chi^2/\text{NDF}$ : 1355108.4/2

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

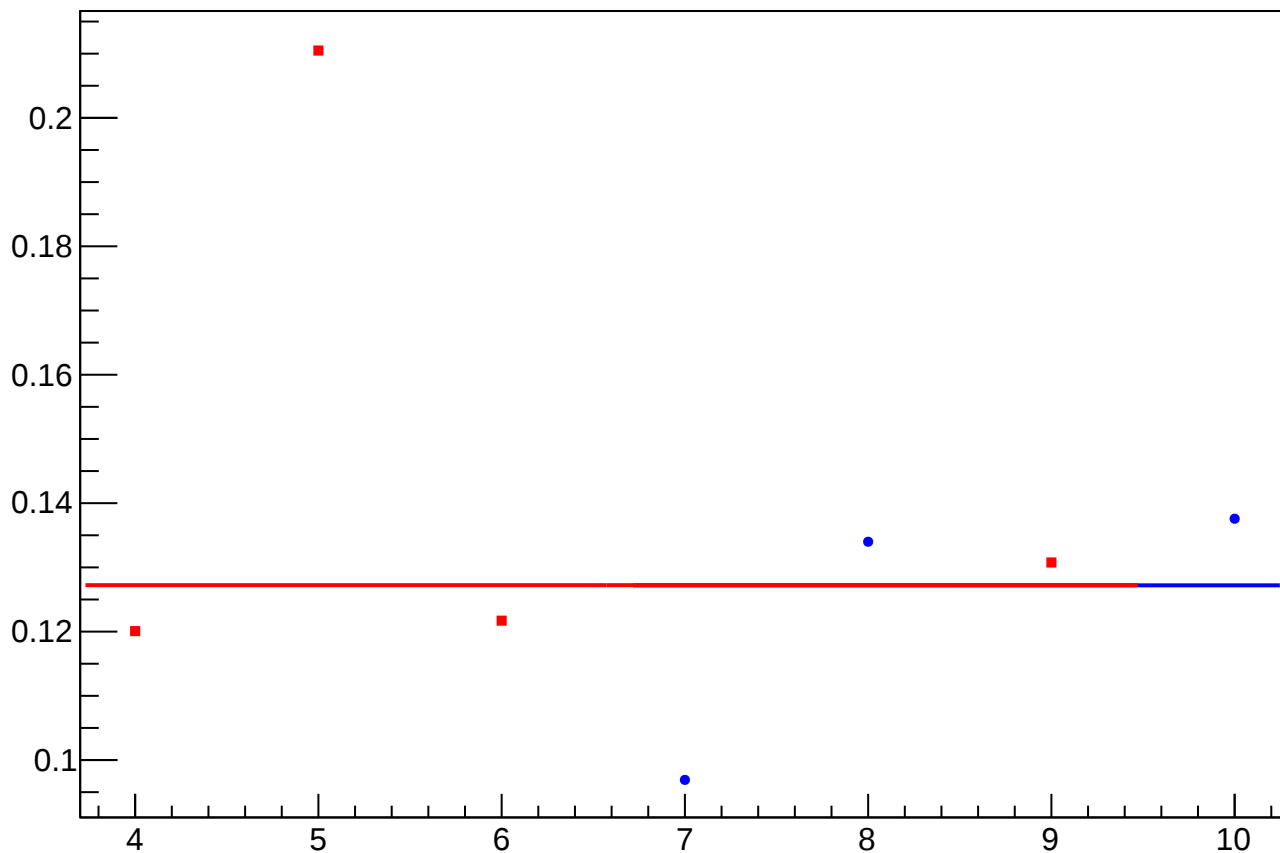
Right Out: 49.951+/-0.000  $\chi^2/\text{NDF}$ : 969267719.8/3

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

49.447+/-0.000  $\chi^2/\text{NDF}$ : 1355108.4/2

49.951+/-0.000  $\chi^2/\text{NDF}$ : 969267719.8/3

# yield\_bcm\_an\_ds\_rms vs slug



Right In: 0.127+/-0.000  $\chi^2/\text{NDF}$ : 57996.6/2

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

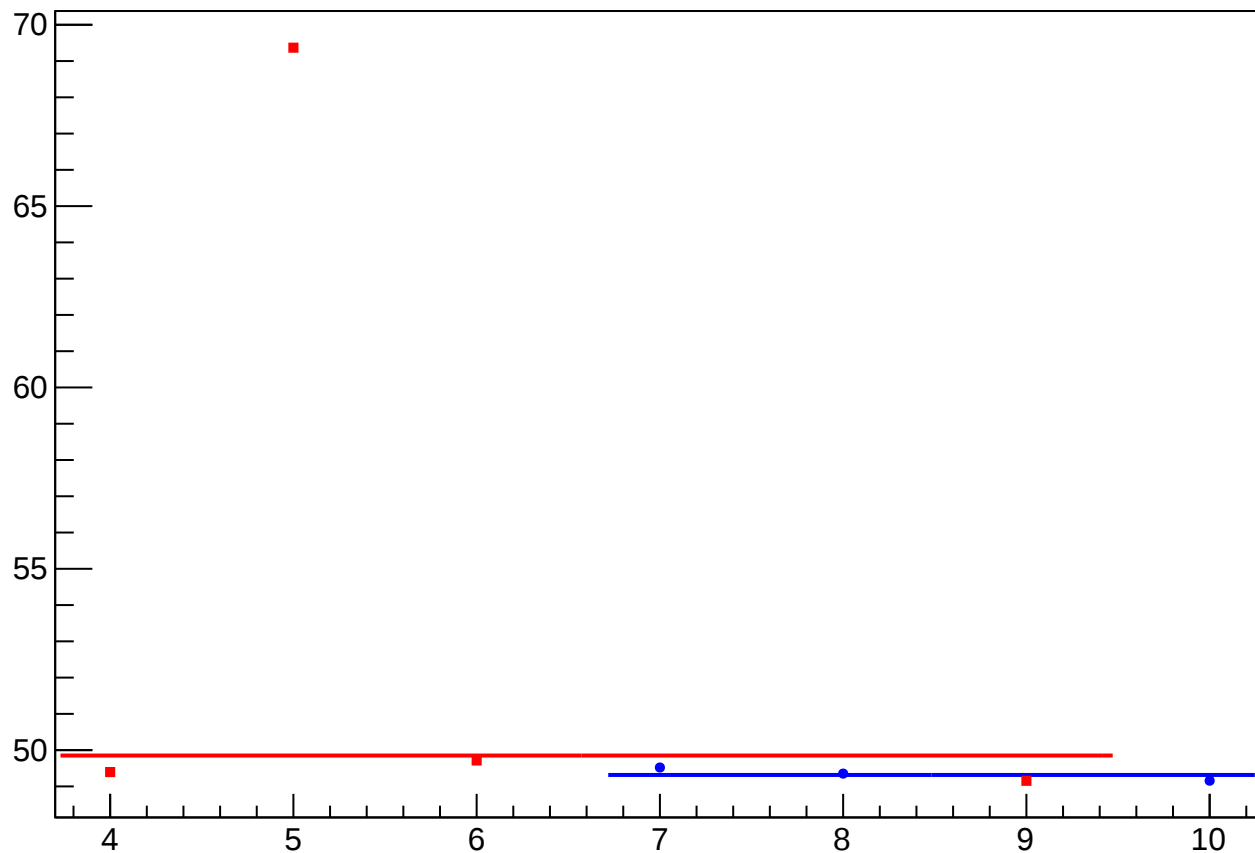
Right Out: 0.127+/-0.000  $\chi^2/\text{NDF}$ : 40221.5/3

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

0.127+/-0.000  $\chi^2/\text{NDF}$ : 57996.6/2

0.127+/-0.000  $\chi^2/\text{NDF}$ : 40221.5/3

# yield\_bcm\_an\_ds3\_mean vs slug



Right In: 49.316+/-0.000  $\chi^2/\text{NDF}$ : 2203635.7/2

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

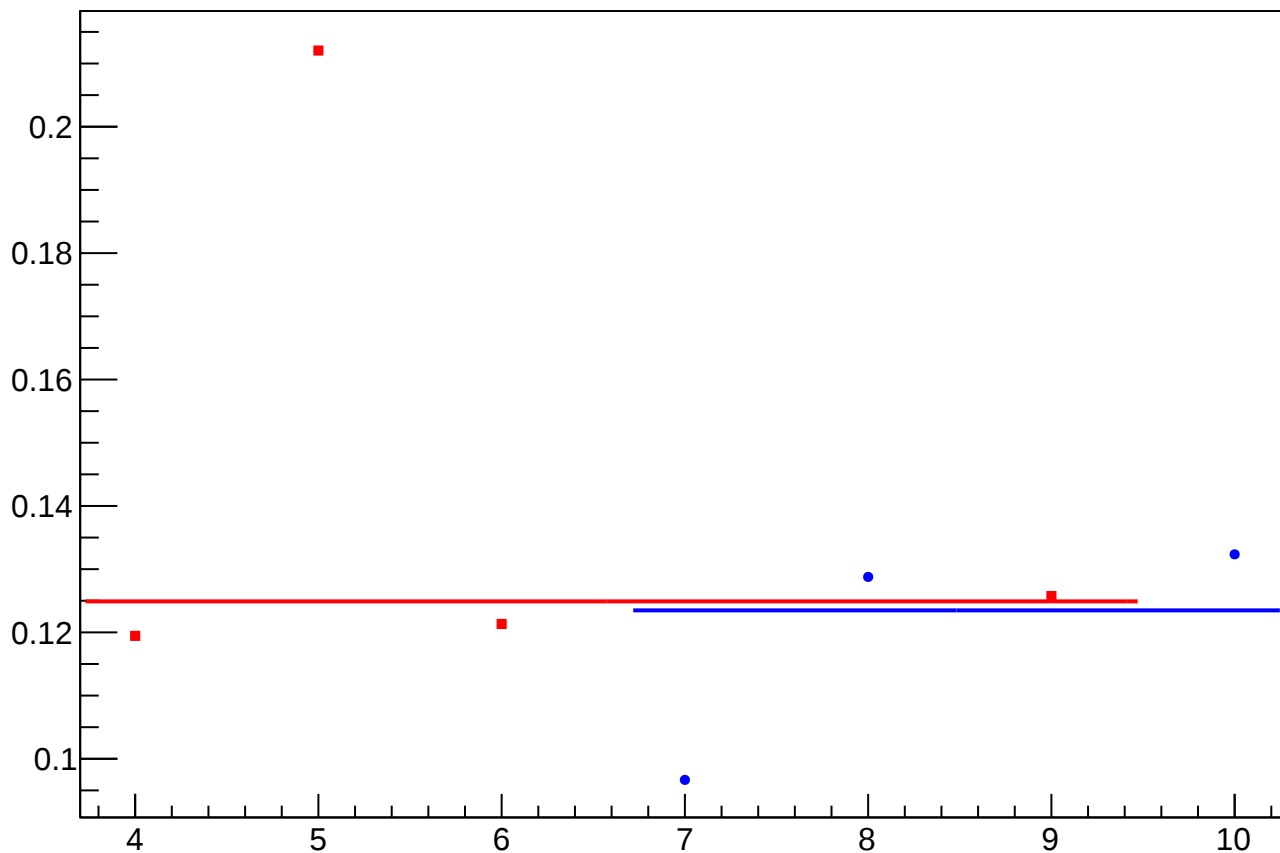
Right Out: 49.851+/-0.000  $\chi^2/\text{NDF}$ : 965466754.4/3

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

49.316+/-0.000  $\chi^2/\text{NDF}$ : 2203635.7/2

49.851+/-0.000  $\chi^2/\text{NDF}$ : 965466754.4/3

# yield\_bcm\_an\_ds3\_rms vs slug



Right In: 0.123+/-0.000  $\chi^2/\text{NDF}$ : 45139.3/2

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

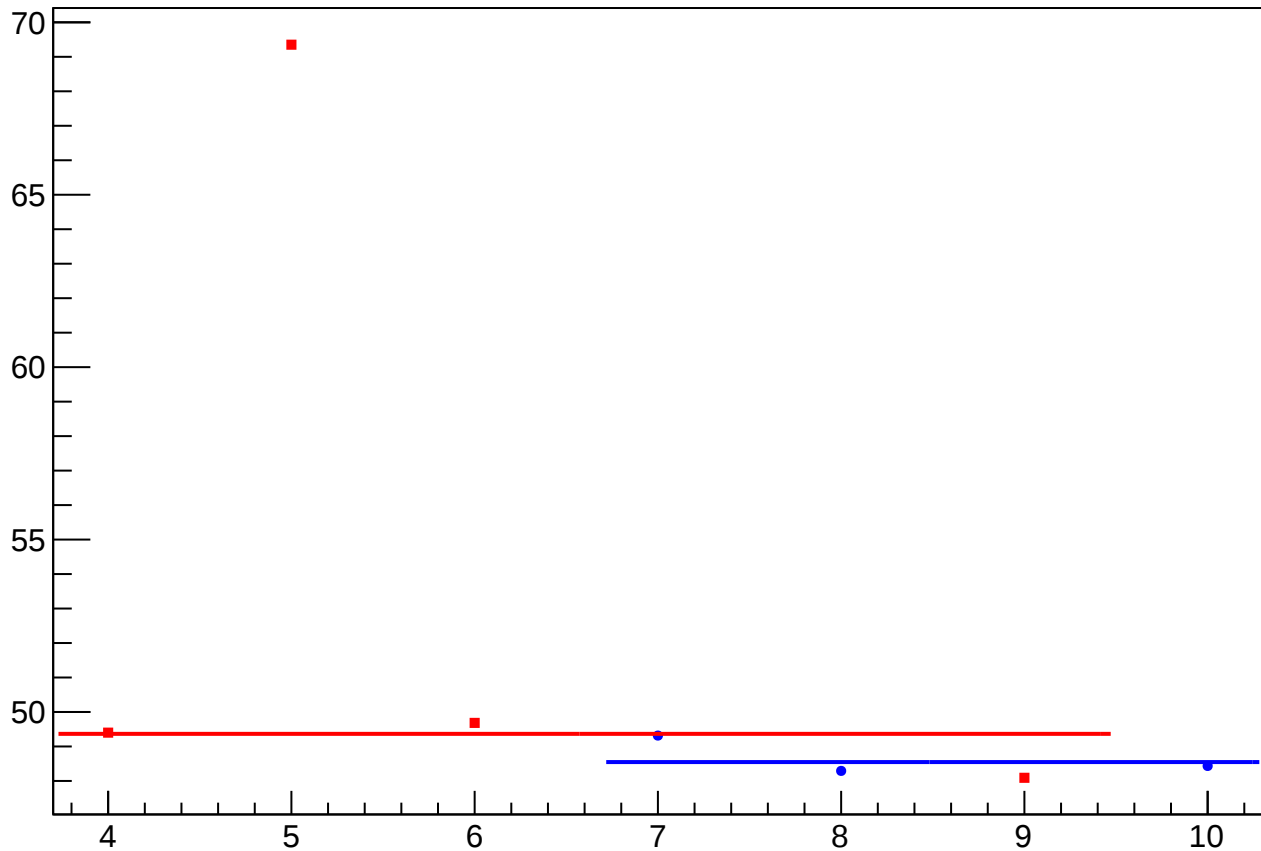
Right Out: 0.125+/-0.000  $\chi^2/\text{NDF}$ : 39750.9/3

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

0.123+/-0.000  $\chi^2/\text{NDF}$ : 45139.3/2

0.125+/-0.000  $\chi^2/\text{NDF}$ : 39750.9/3

# yield\_bcm\_an\_us\_mean vs slug



Right In: 48.548+/-0.000  $\chi^2/\text{NDF}$ : 18201743.5/2

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

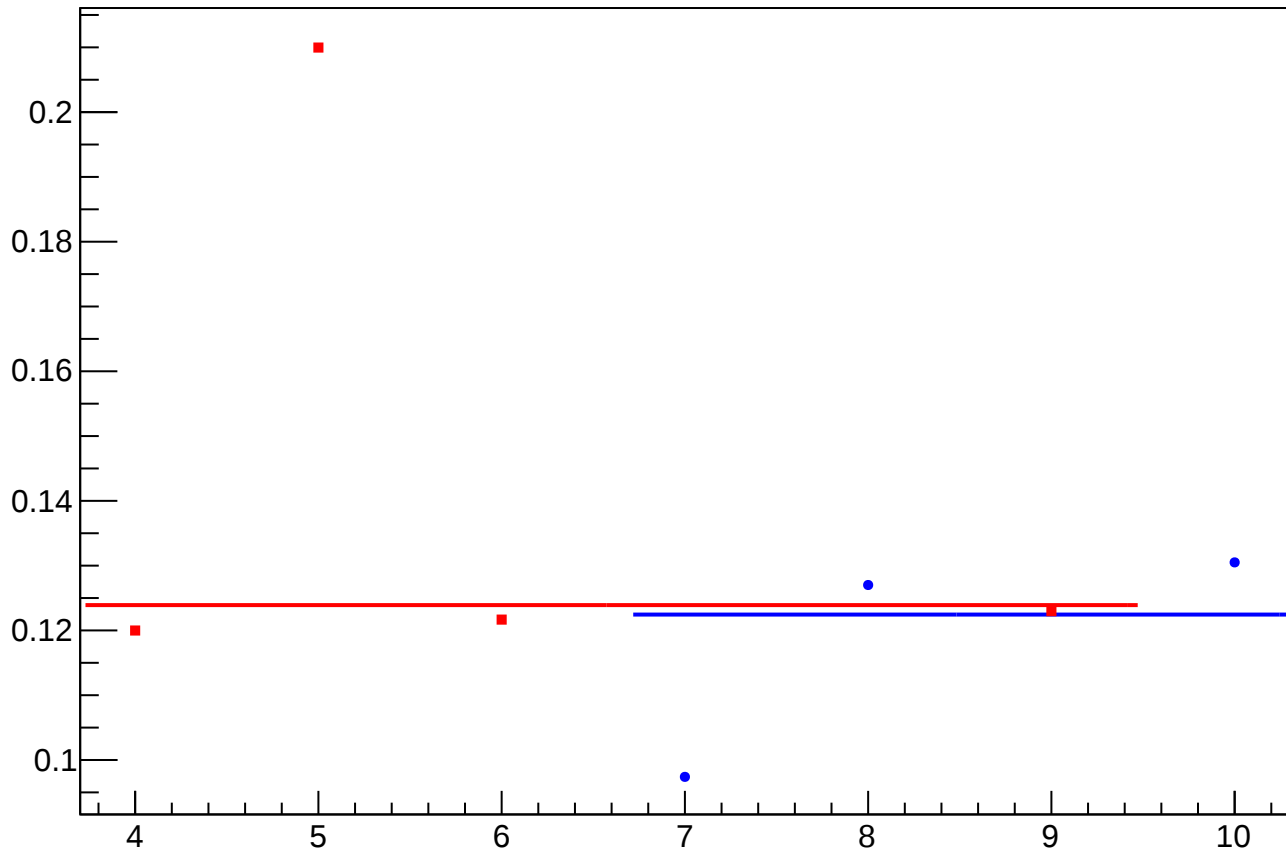
Right Out: 49.366+/-0.000  $\chi^2/\text{NDF}$ : 1084757481.6/3

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

48.548+/-0.000  $\chi^2/\text{NDF}$ : 18201743.5/2

49.366+/-0.000  $\chi^2/\text{NDF}$ : 1084757481.6/3

# yield\_bcm\_an\_us\_rms vs slug



Right In: 0.122+/-0.000  $\chi^2/\text{NDF}$ : 38229.1/2

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

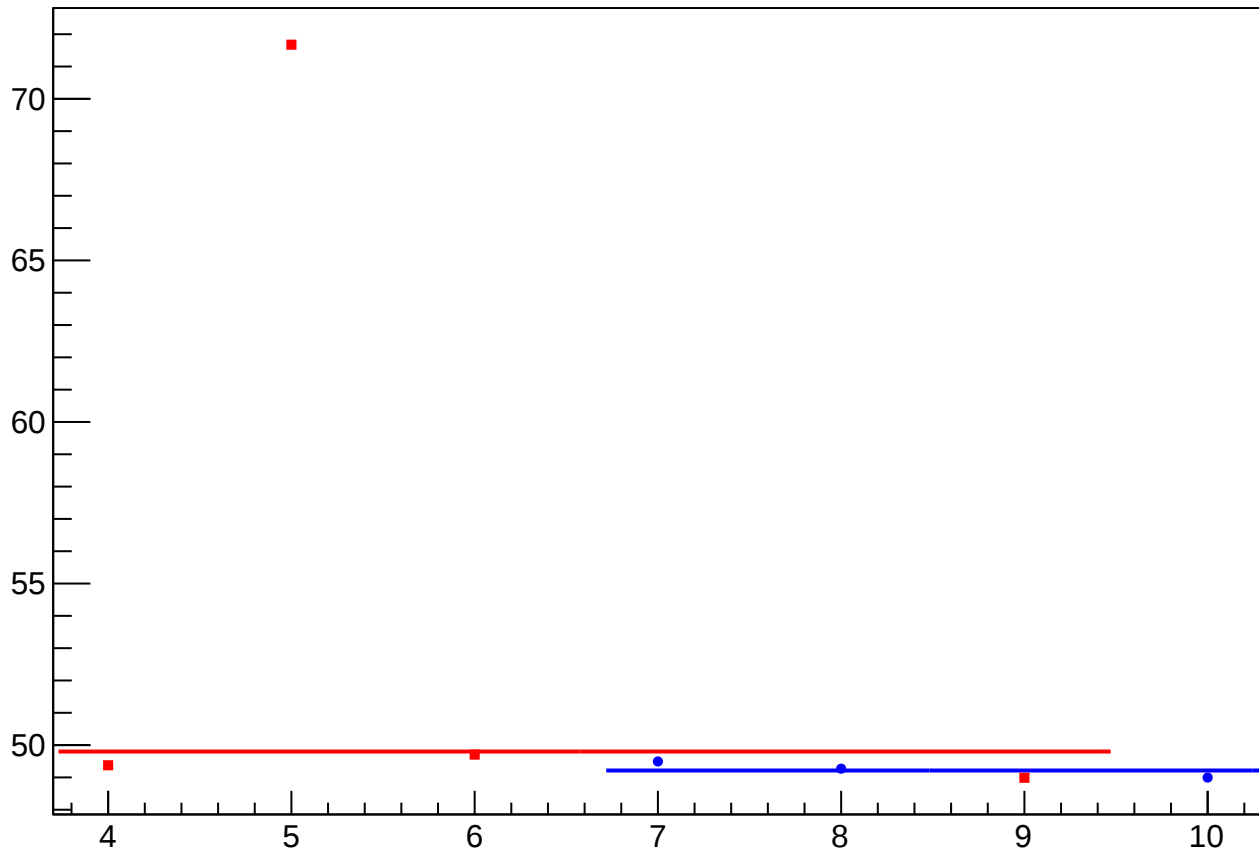
Right Out: 0.124+/-0.000  $\chi^2/\text{NDF}$ : 38329.9/3

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

0.122+/-0.000  $\chi^2/\text{NDF}$ : 38229.1/2

0.124+/-0.000  $\chi^2/\text{NDF}$ : 38329.9/3

# yield\_bcm\_dg\_us\_mean vs slug



Right In: 49.214+/-0.000  $\chi^2/\text{NDF}$ : 4034885.5/2

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

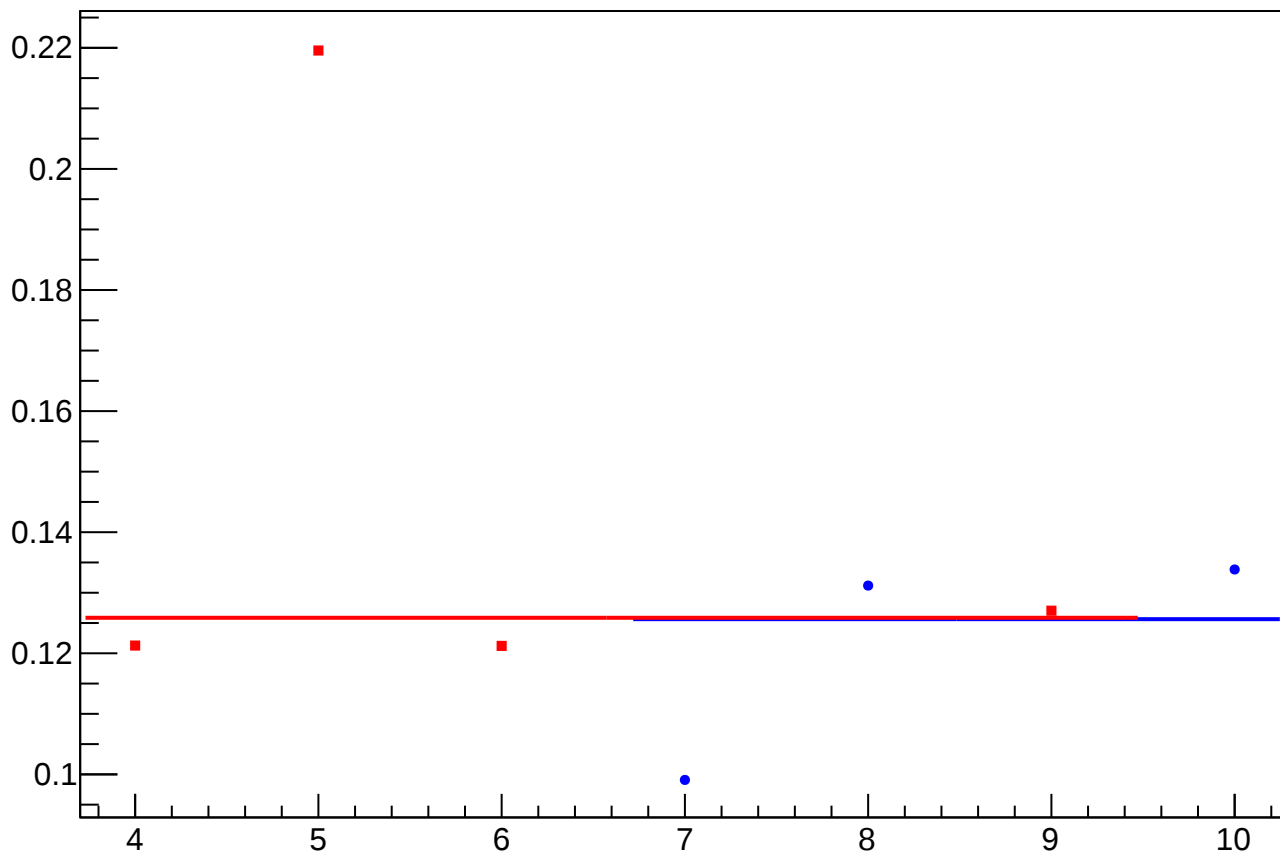
Right Out: 49.801+/-0.000  $\chi^2/\text{NDF}$ : 1134218341.7/3

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

49.214+/-0.000  $\chi^2/\text{NDF}$ : 4034885.5/2

49.801+/-0.000  $\chi^2/\text{NDF}$ : 1134218341.7/3

yield\_bcm\_dg\_us\_rms vs slug



Right In: 0.126+/-0.000  $\chi^2/\text{NDF}$ : 42020.9/2

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

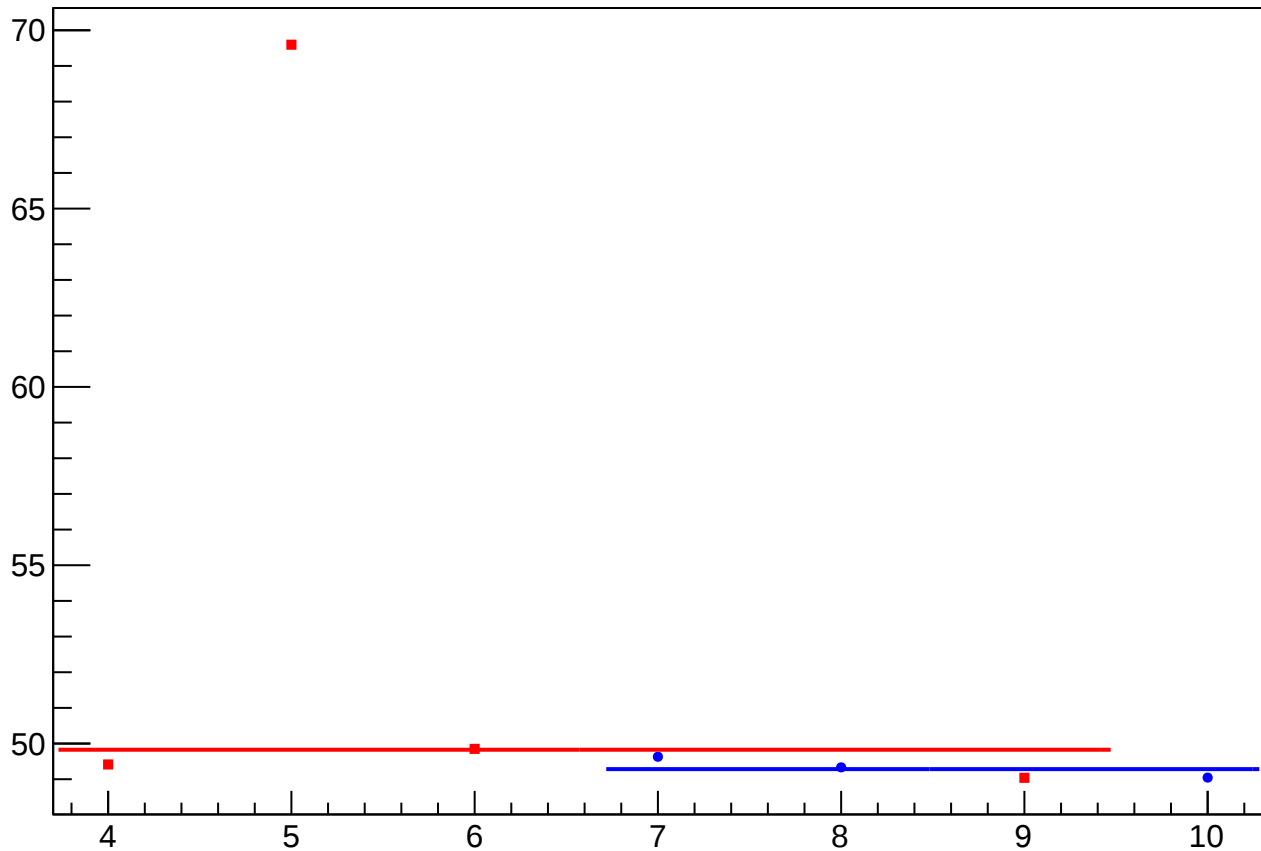
Right Out: 0.126+/-0.000  $\chi^2/\text{NDF}$ : 42956.1/3

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

0.126+/-0.000  $\chi^2/\text{NDF}$ : 42020.9/2

0.126+/-0.000  $\chi^2/\text{NDF}$ : 42956.1/3

# yield\_bcm\_dg\_ds\_mean vs slug



Right In: 49.284+/-0.000  $\chi^2/\text{NDF}$ : 5710854.8/2

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

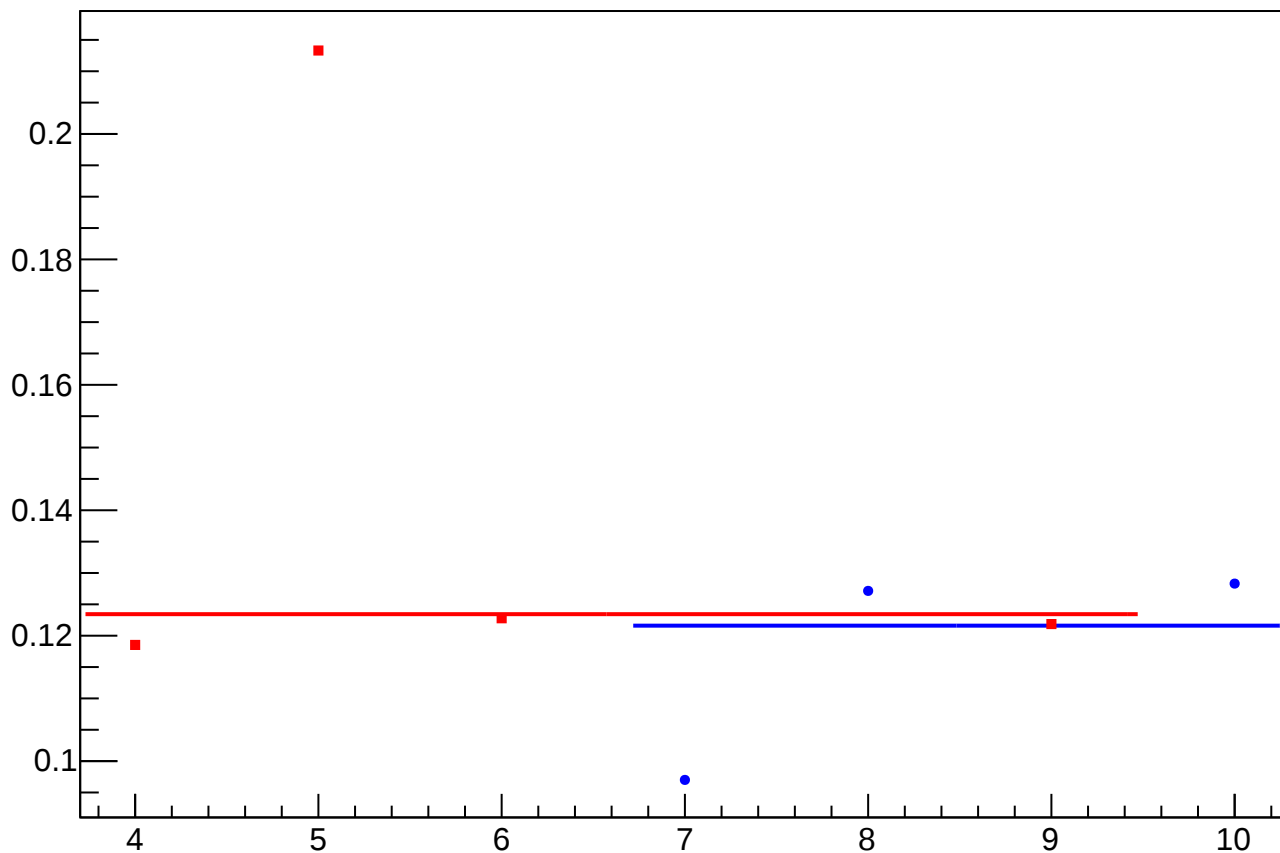
49.284+/-0.000  $\chi^2/\text{NDF}$ : 5710854.8/2

Right Out: 49.827+/-0.000  $\chi^2/\text{NDF}$ : 985930839.8/3

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

49.827+/-0.000  $\chi^2/\text{NDF}$ : 985930839.8/3

# yield\_bcm\_dg\_ds\_rms vs slug



Right In: 0.122+/-0.000  $\chi^2/\text{NDF}$ : 37091.6/2

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

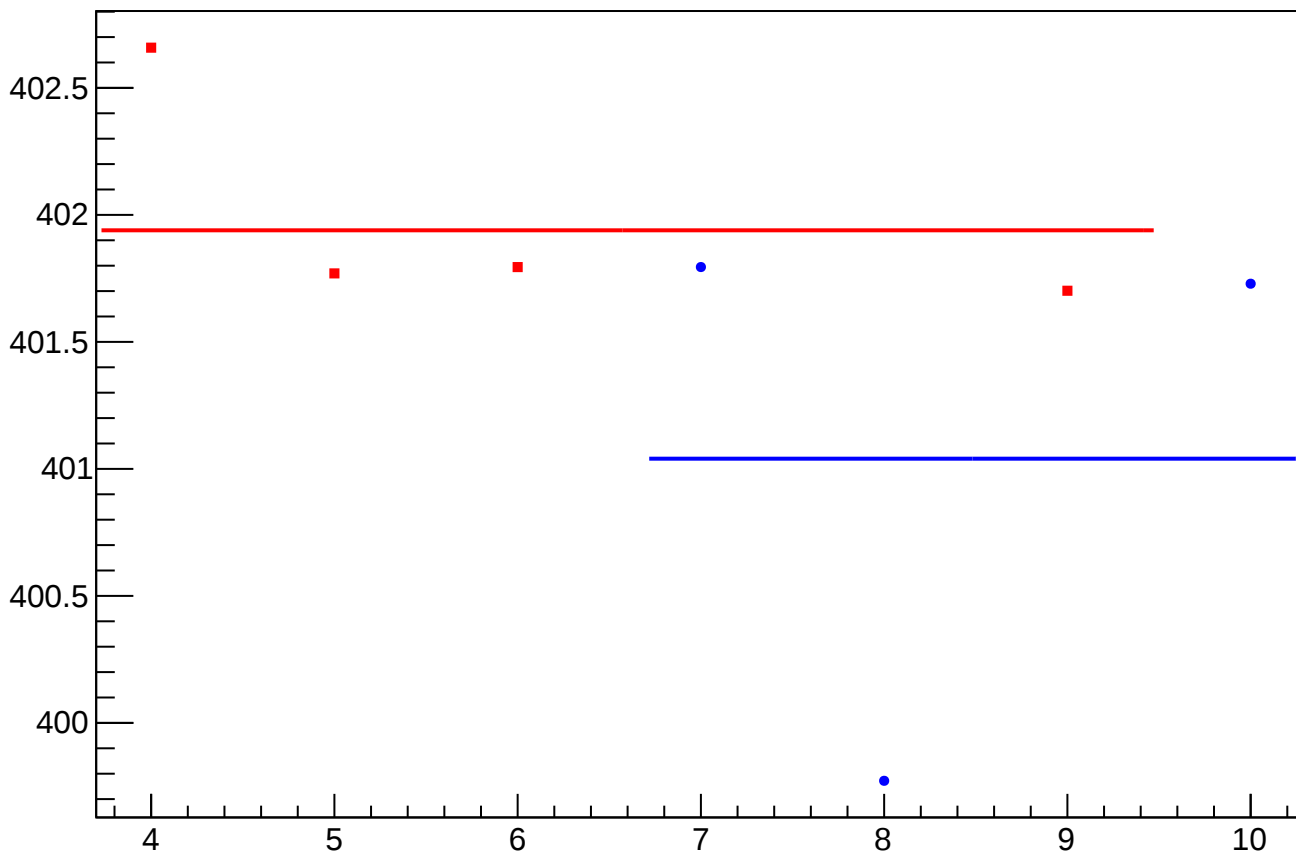
Right Out: 0.123+/-0.000  $\chi^2/\text{NDF}$ : 40754.2/3

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

0.122+/-0.000  $\chi^2/\text{NDF}$ : 37091.6/2

0.123+/-0.000  $\chi^2/\text{NDF}$ : 40754.2/3

# yield\_cav4bQ\_mean vs slug



Right In: 401.040 $\pm$ 0.000  $\chi^2$ /NDF: 39287856602.3/2

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

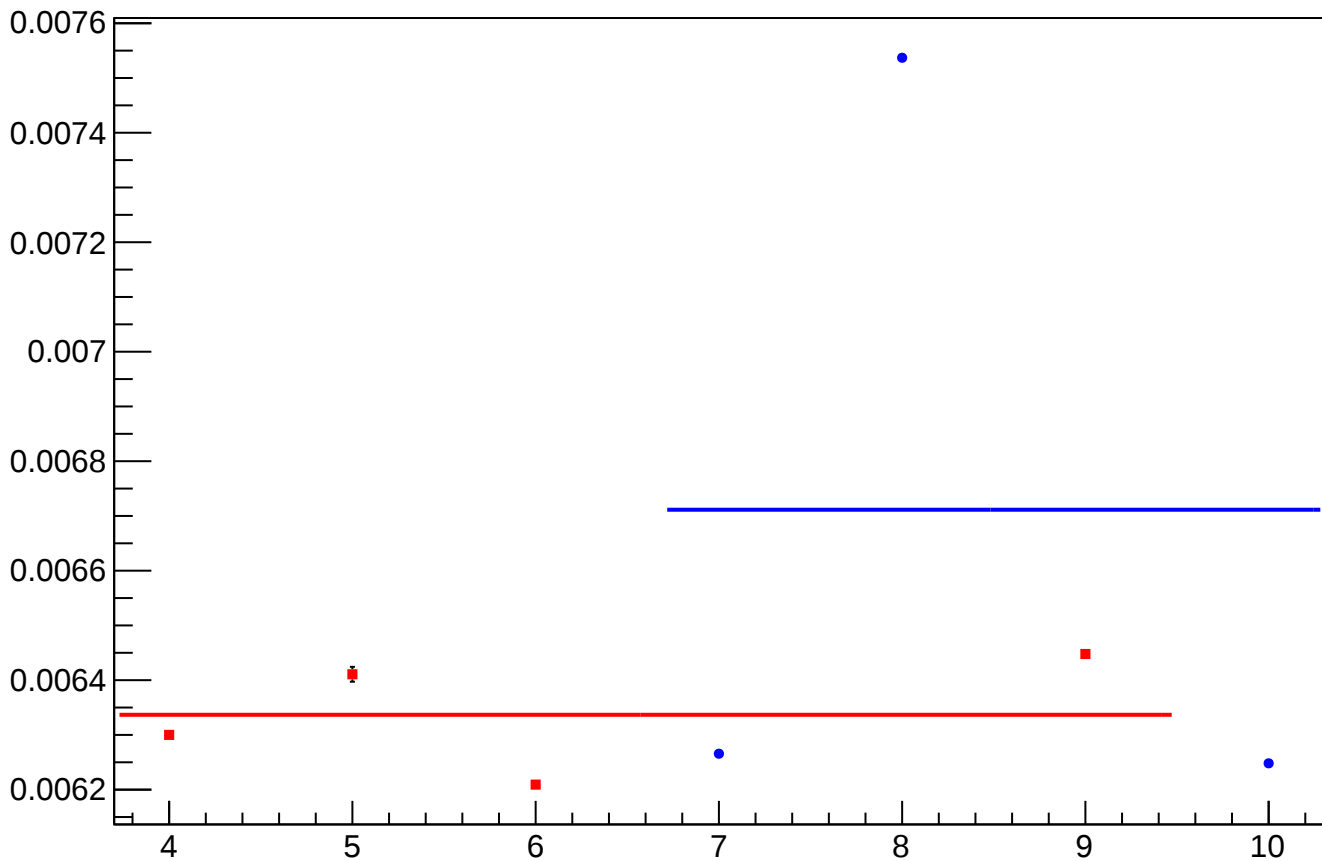
Right Out: 401.939 $\pm$ 0.000  $\chi^2$ /NDF: 6487809173.8/3

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

401.040 $\pm$ 0.000  $\chi^2$ /NDF: 39287856602.3/2

401.939 $\pm$ 0.000  $\chi^2$ /NDF: 6487809173.8/3

yield\_cav4bQ\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 33289.8/2

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

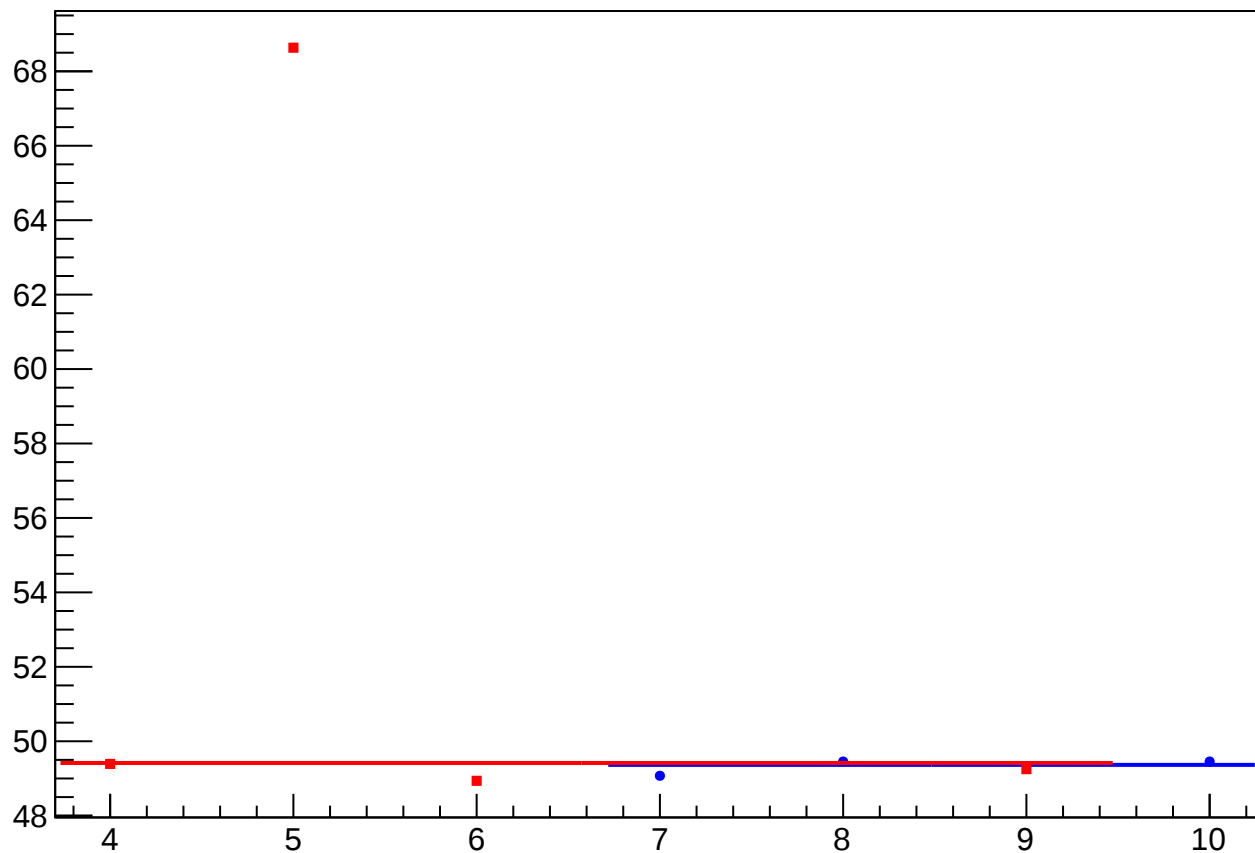
Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 997.6/3

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

0.007+/-0.000  $\chi^2/\text{NDF}$ : 33289.8/2

0.006+/-0.000  $\chi^2/\text{NDF}$ : 997.6/3

# yield\_cav4cQ\_mean vs slug



Right In: 49.366+/-0.000  $\chi^2/\text{NDF}$ : 1616987.0/2

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

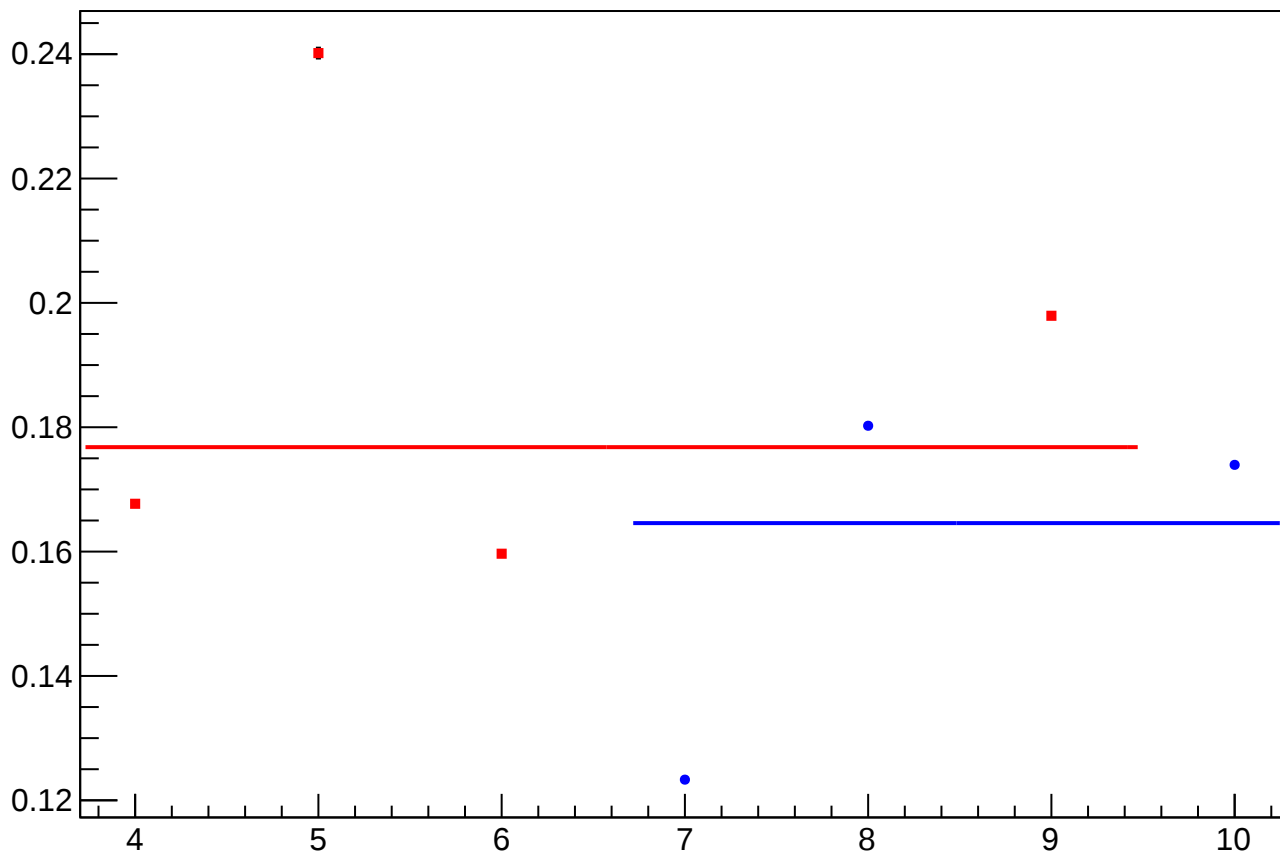
Right Out: 49.417+/-0.000  $\chi^2/\text{NDF}$ : 247856449.1/3

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

49.366+/-0.000  $\chi^2/\text{NDF}$ : 1616987.0/2

49.417+/-0.000  $\chi^2/\text{NDF}$ : 247856449.1/3

# yield\_cav4cQ\_rms vs slug



Right In: 0.165+/-0.000  $\chi^2/\text{NDF}$ : 64953.0/2

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

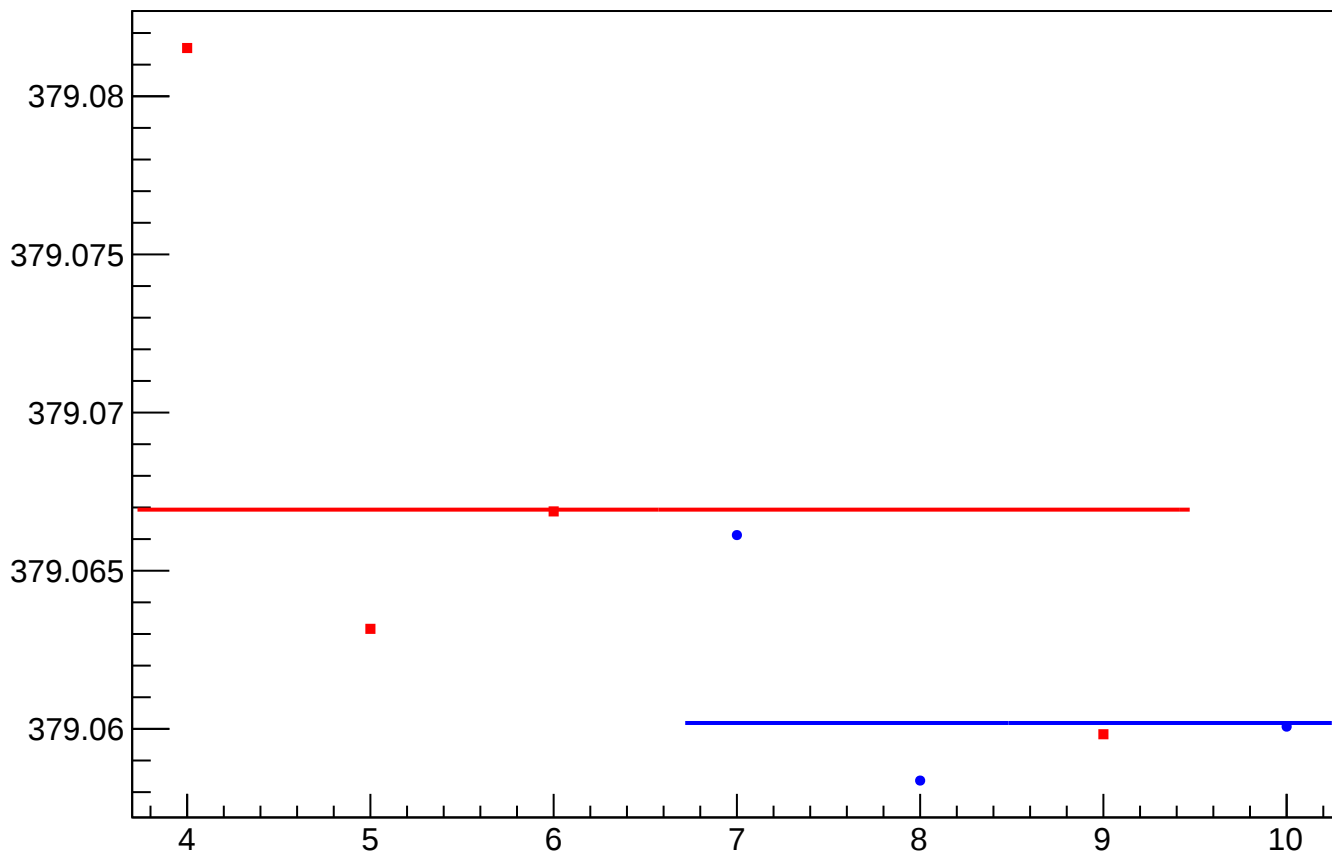
Right Out: 0.177+/-0.000  $\chi^2/\text{NDF}$ : 34498.5/3

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

0.165+/-0.000  $\chi^2/\text{NDF}$ : 64953.0/2

0.177+/-0.000  $\chi^2/\text{NDF}$ : 34498.5/3

# yield\_cav4dQ\_mean vs slug



Right In: 379.060 $\pm$ 0.000  $\chi^2$ /NDF: 268571.5/2

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

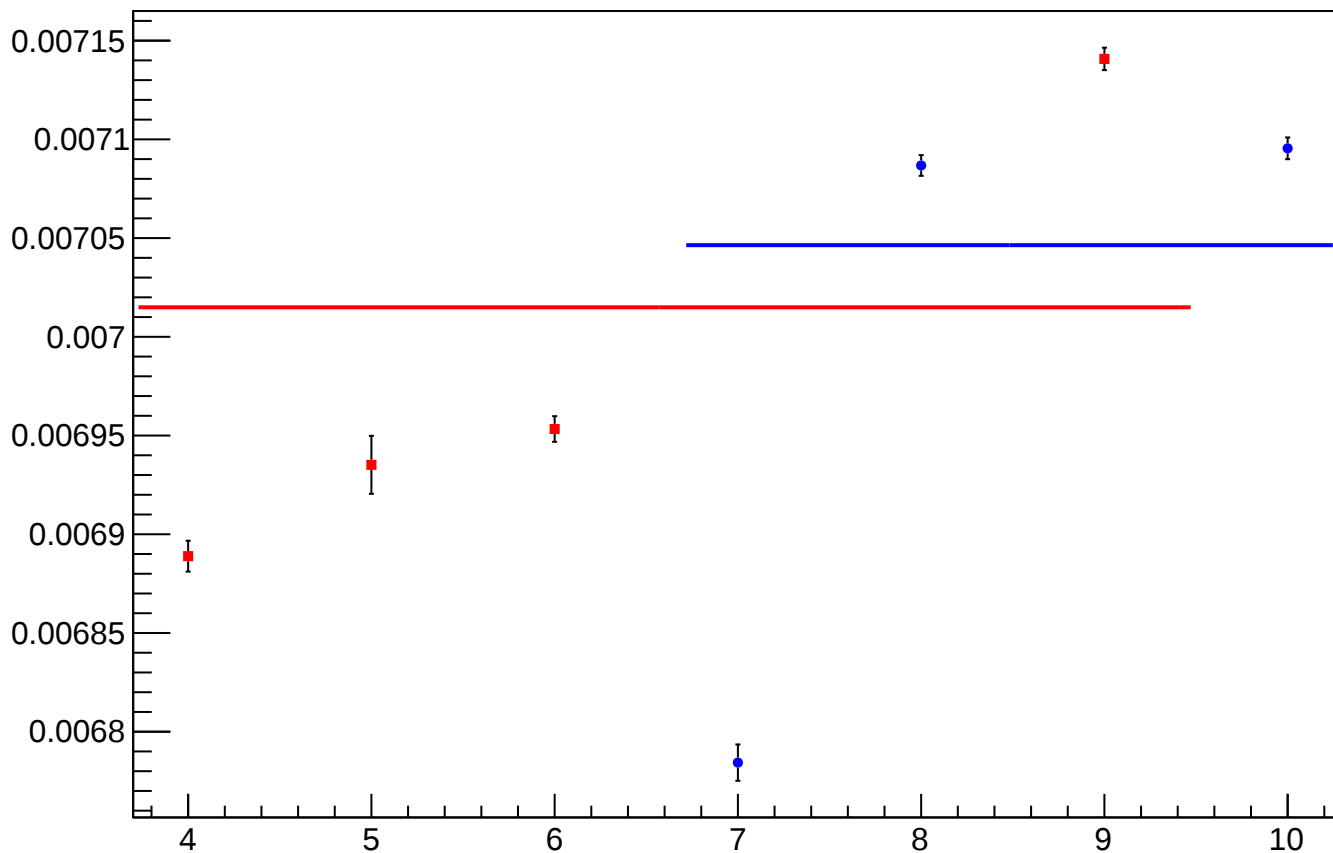
Right Out: 379.067 $\pm$ 0.000  $\chi^2$ /NDF: 2555476.3/3

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

379.060 $\pm$ 0.000  $\chi^2$ /NDF: 268571.5/2

379.067 $\pm$ 0.000  $\chi^2$ /NDF: 2555476.3/3

# yield\_cav4dQ\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 948.6/2

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

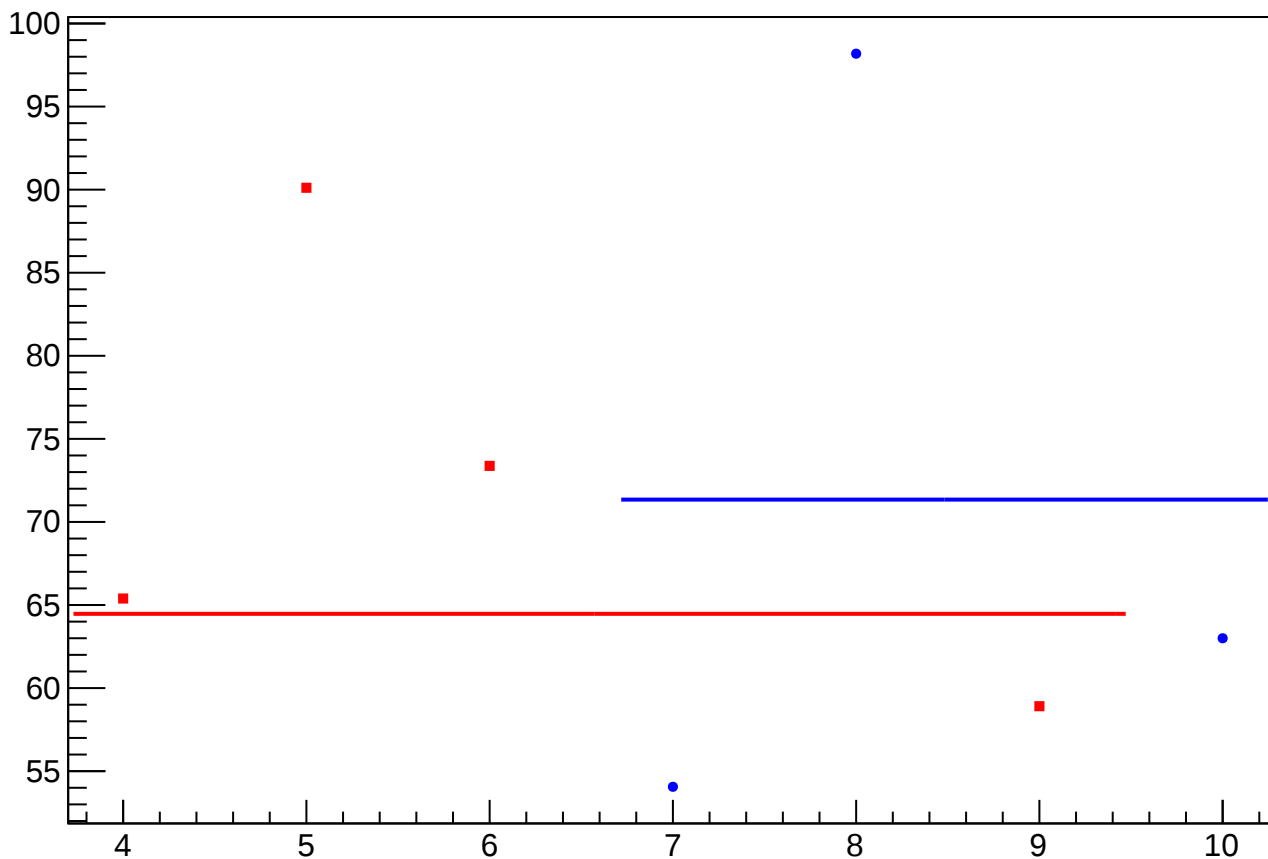
Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 869.7/3

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

0.007+/-0.000  $\chi^2/\text{NDF}$ : 948.6/2

0.007+/-0.000  $\chi^2/\text{NDF}$ : 869.7/3

# yield\_bcm0l02\_mean vs slug



Right In: 71.345+/-0.000  $\chi^2/\text{NDF}$ : 9056801015.9/2

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

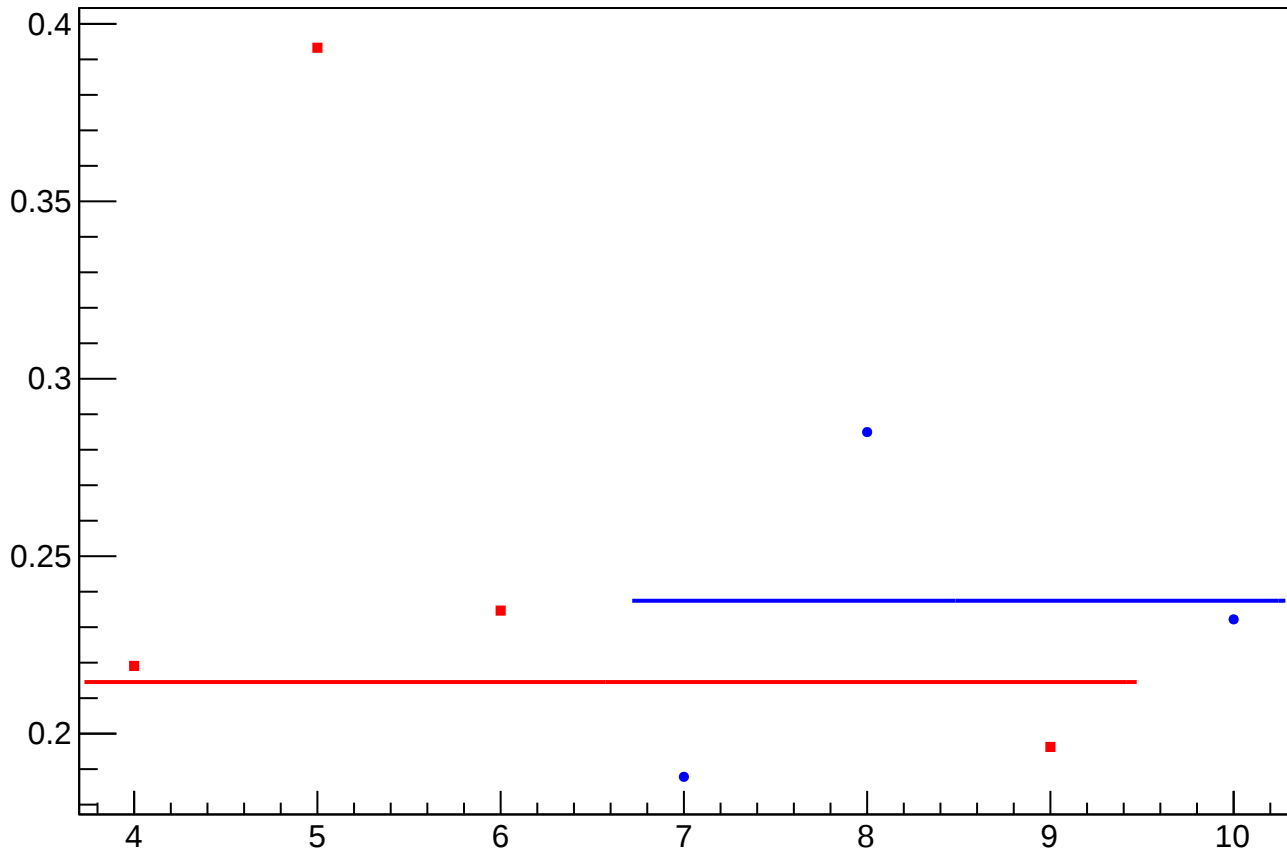
Right Out: 64.470+/-0.000  $\chi^2/\text{NDF}$ : 1602945572.3/3

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

71.345+/-0.000  $\chi^2/\text{NDF}$ : 9056801015.9/2

64.470+/-0.000  $\chi^2/\text{NDF}$ : 1602945572.3/3

# yield\_bcm0l02\_rms vs slug



Right In: 0.237+/-0.000  $\chi^2/\text{NDF}$ : 72172.5/2

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

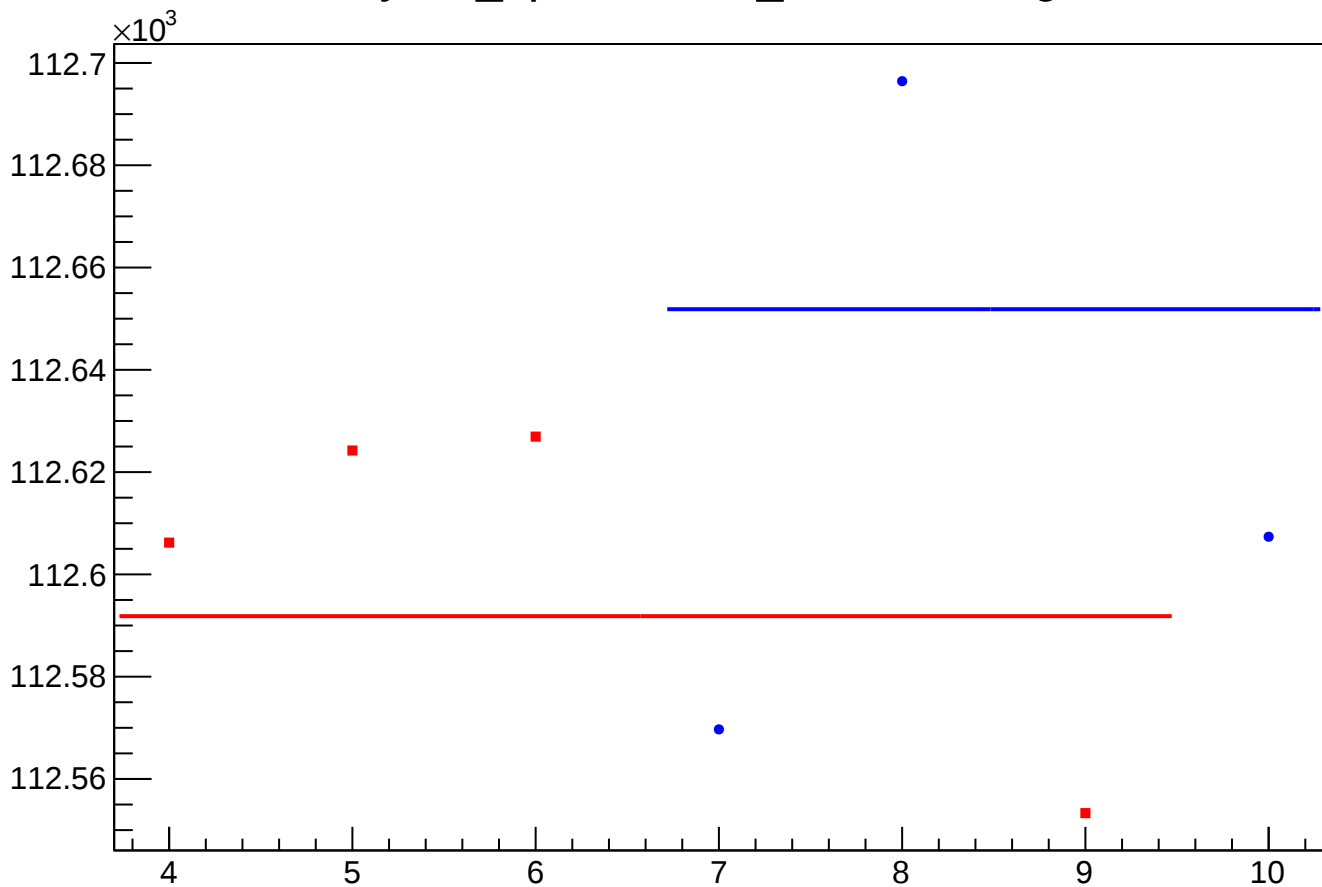
Right Out: 0.215+/-0.000  $\chi^2/\text{NDF}$ : 60516.9/3

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

0.237+/-0.000  $\chi^2/\text{NDF}$ : 72172.5/2

0.215+/-0.000  $\chi^2/\text{NDF}$ : 60516.9/3

# yield\_bpm2i01WS\_mean vs slug



Right In: 112651.852 $\pm$ 0.074  $\chi^2$ /NDF: 479789.6/2

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

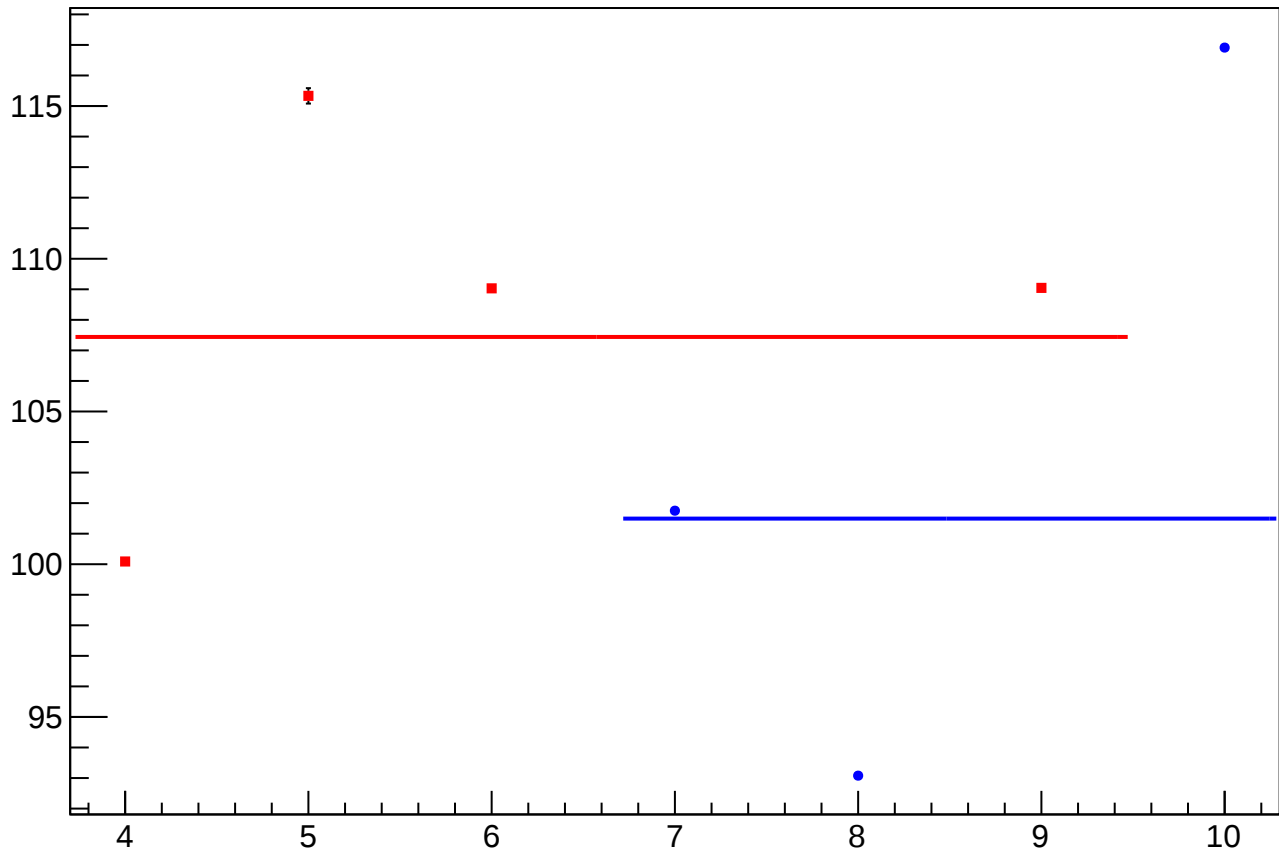
112651.852 $\pm$ 0.074  $\chi^2$ /NDF: 479789.6/2

Right Out: 112591.832 $\pm$ 0.085  $\chi^2$ /NDF: 154065.9/3

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

112591.832 $\pm$ 0.085  $\chi^2$ /NDF: 154065.9/3

# yield\_bpm2i01WS\_rms vs slug



Right In: 101.493 $\pm$ 0.053  $\chi^2$ /NDF: 40374.0/2

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

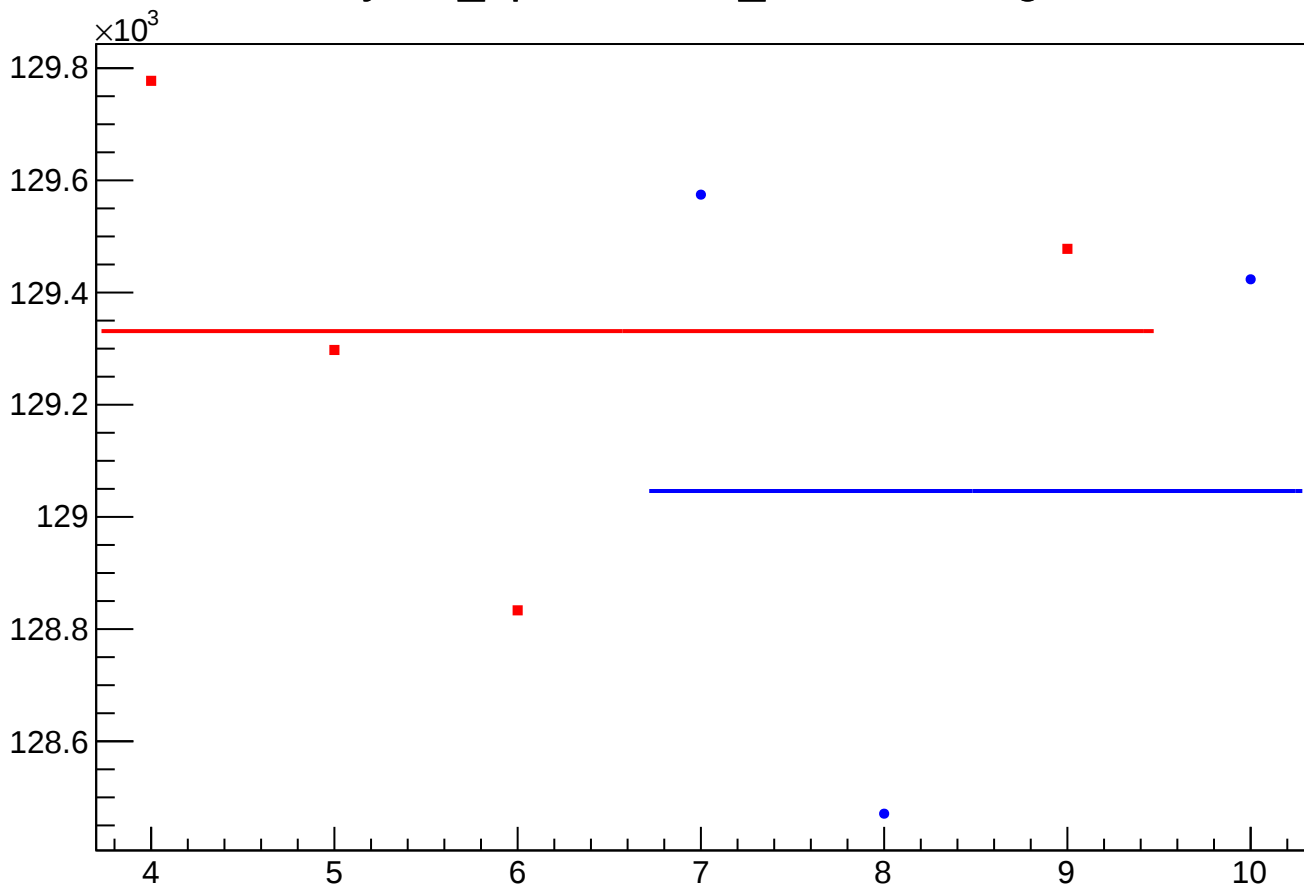
Right Out: 107.440 $\pm$ 0.060  $\chi^2$ /NDF: 4798.5/3

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

101.493 $\pm$ 0.053  $\chi^2$ /NDF: 40374.0/2

107.440 $\pm$ 0.060  $\chi^2$ /NDF: 4798.5/3

# yield\_bpm0i07WS\_mean vs slug



Right In: 129046.191 $\pm$ 0.140  $\chi^2$ /NDF: 12057913.1/2

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

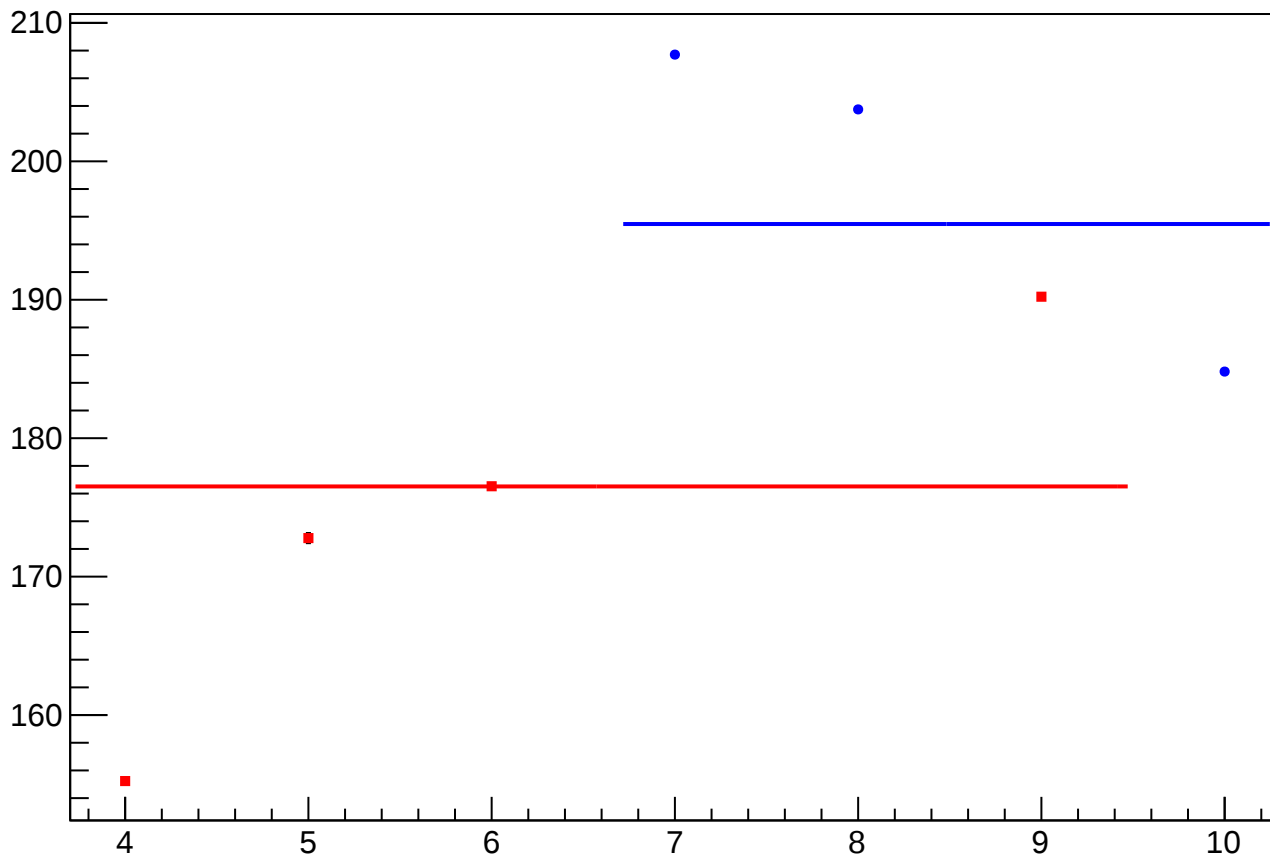
129046.191 $\pm$ 0.140  $\chi^2$ /NDF: 12057913.1/2

Right Out: 129331.262 $\pm$ 0.135  $\chi^2$ /NDF: 7267912.1/3

129331.262 $\pm$ 0.135  $\chi^2$ /NDF: 7267912.1/3

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

# yield\_bpm0i07WS\_rms vs slug



Right In: 195.471+/-0.099  $\chi^2/\text{NDF}$ : 10086.7/2

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

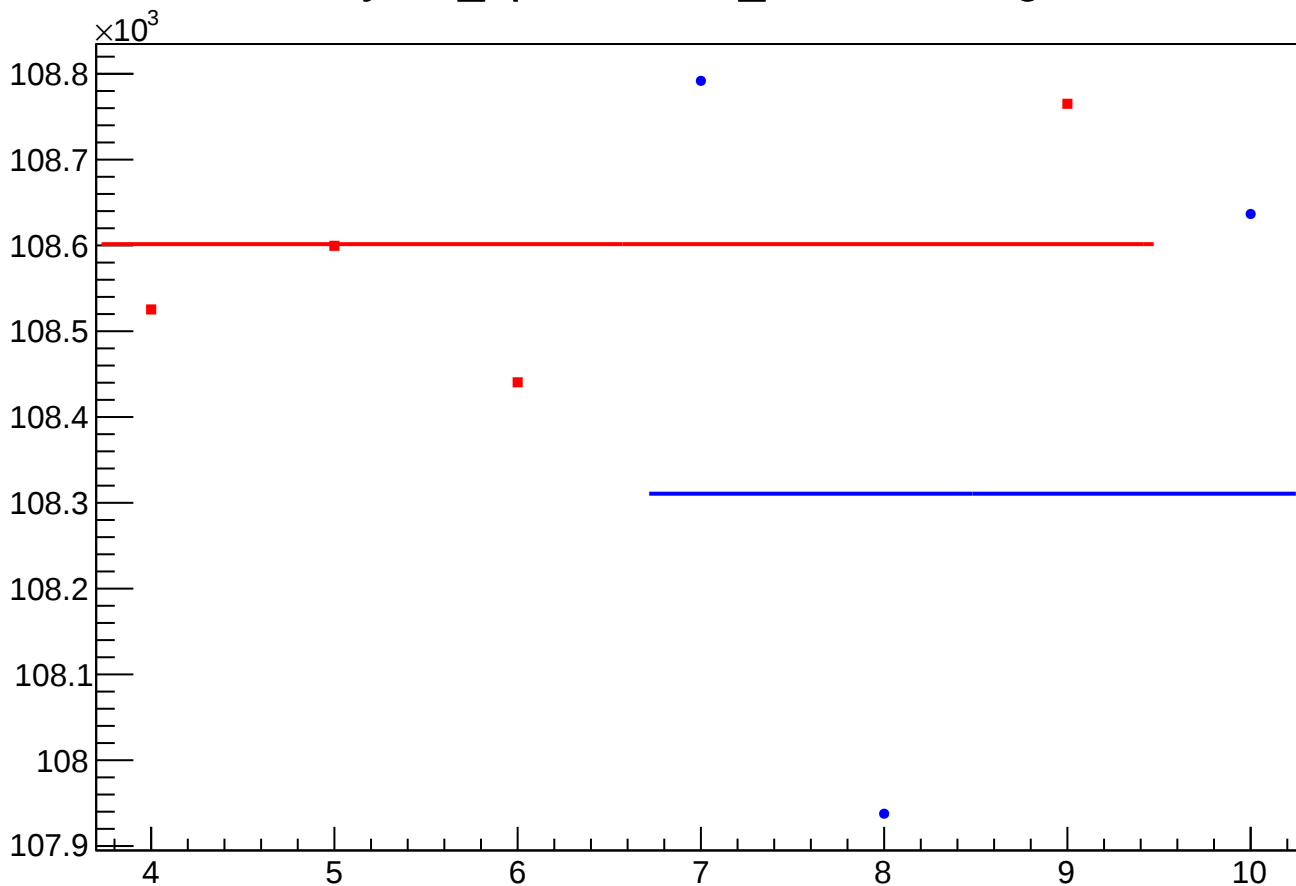
195.471+/-0.099  $\chi^2/\text{NDF}$ : 10086.7/2

Right Out: 176.515+/-0.096  $\chi^2/\text{NDF}$ : 19441.2/3

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

176.515+/-0.096  $\chi^2/\text{NDF}$ : 19441.2/3

# yield\_bpm0l01WS\_mean vs slug



Right In: 108310.645 $\pm$ 0.078  $\chi^2$ /NDF: 23001123.2/2

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

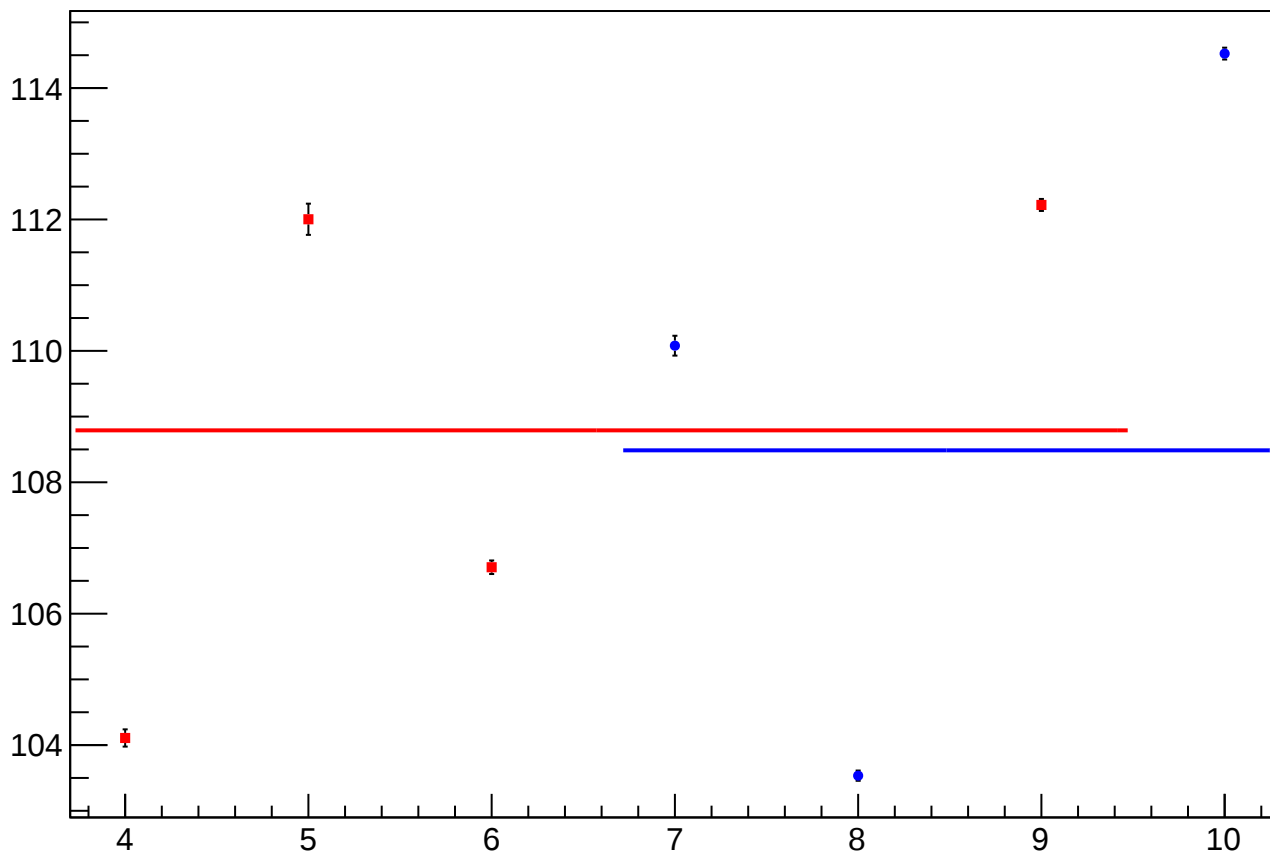
Right Out: 108601.483 $\pm$ 0.083  $\chi^2$ /NDF: 2988346.9/3

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

108310.645 $\pm$ 0.078  $\chi^2$ /NDF: 23001123.2/2

108601.483 $\pm$ 0.083  $\chi^2$ /NDF: 2988346.9/3

# yield\_bpm0l01WS\_rms vs slug



Right In: 108.486 $\pm$ 0.055  $\chi^2$ /NDF: 8608.6/2

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

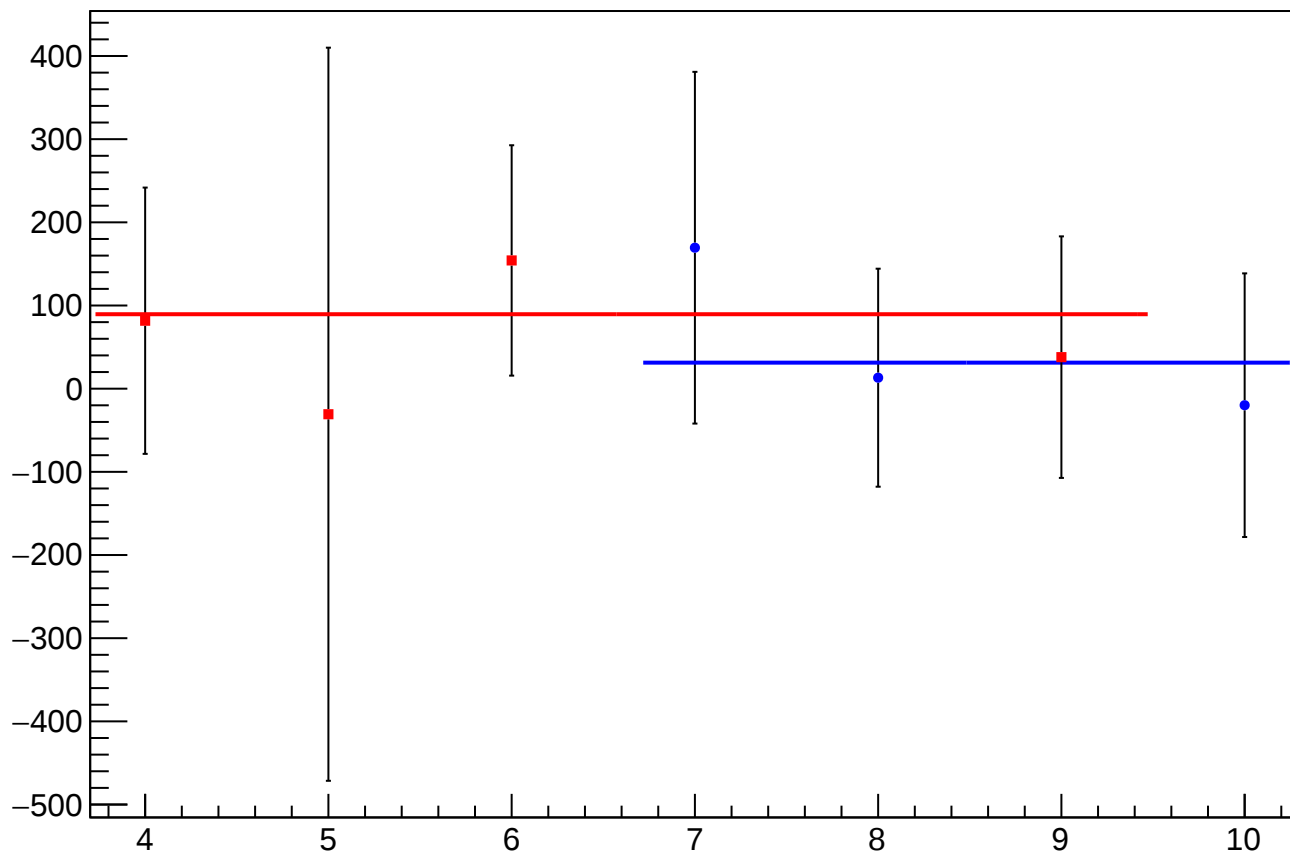
108.486 $\pm$ 0.055  $\chi^2$ /NDF: 8608.6/2

Right Out: 108.790 $\pm$ 0.059  $\chi^2$ /NDF: 3272.1/3

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

108.790 $\pm$ 0.059  $\chi^2$ /NDF: 3272.1/3

# asym\_bcm\_an\_ds\_mean vs slug



Right In: 31.301+/-91.140  $\chi^2/\text{NDF}$ : 0.6/2

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

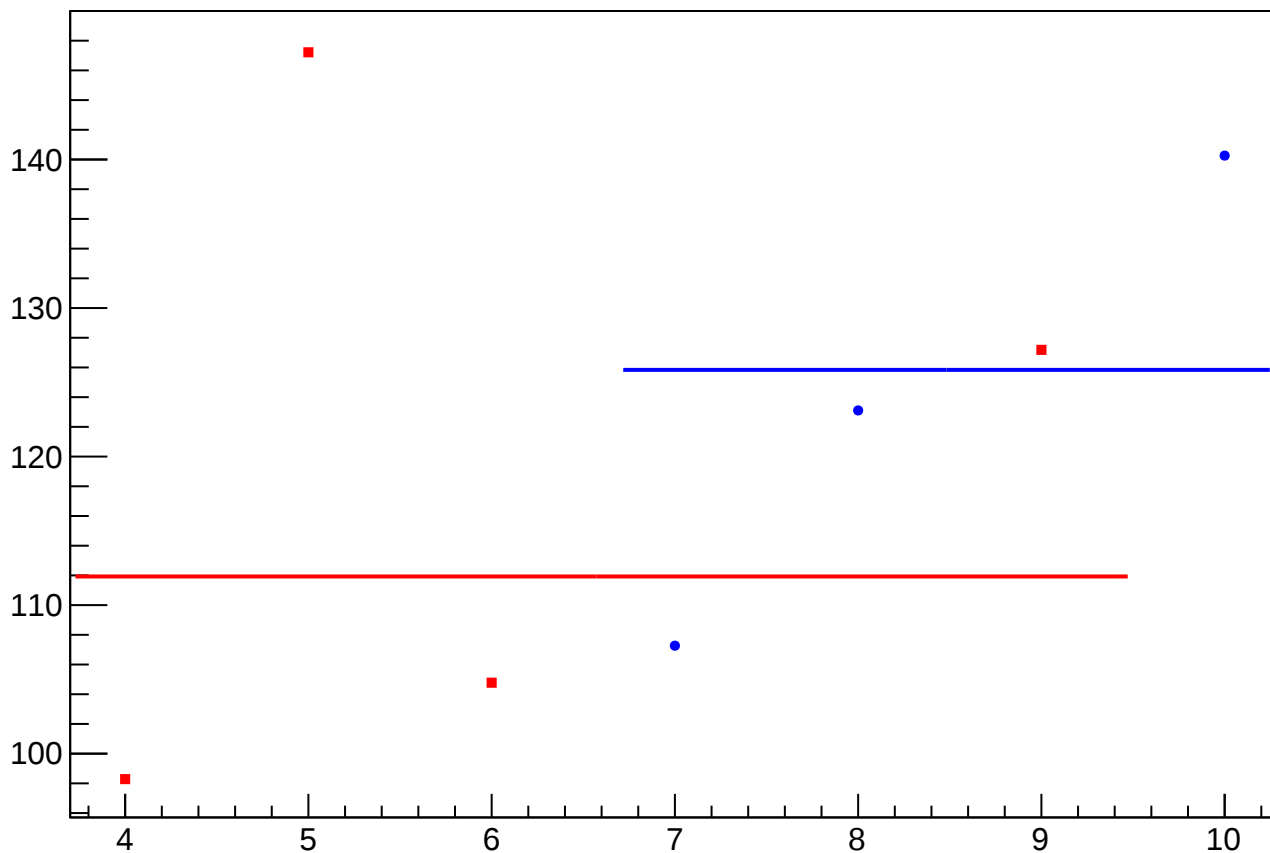
Right Out: 89.523+/-83.412  $\chi^2/\text{NDF}$ : 0.4/3

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

31.301+/-91.140  $\chi^2/\text{NDF}$ : 0.6/2

89.523+/-83.412  $\chi^2/\text{NDF}$ : 0.4/3

# asym\_bcm\_an\_ds\_rms vs slug



Right In: 125.837 $\pm$ 0.064  $\chi^2$ /NDF: 32860.0/2

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

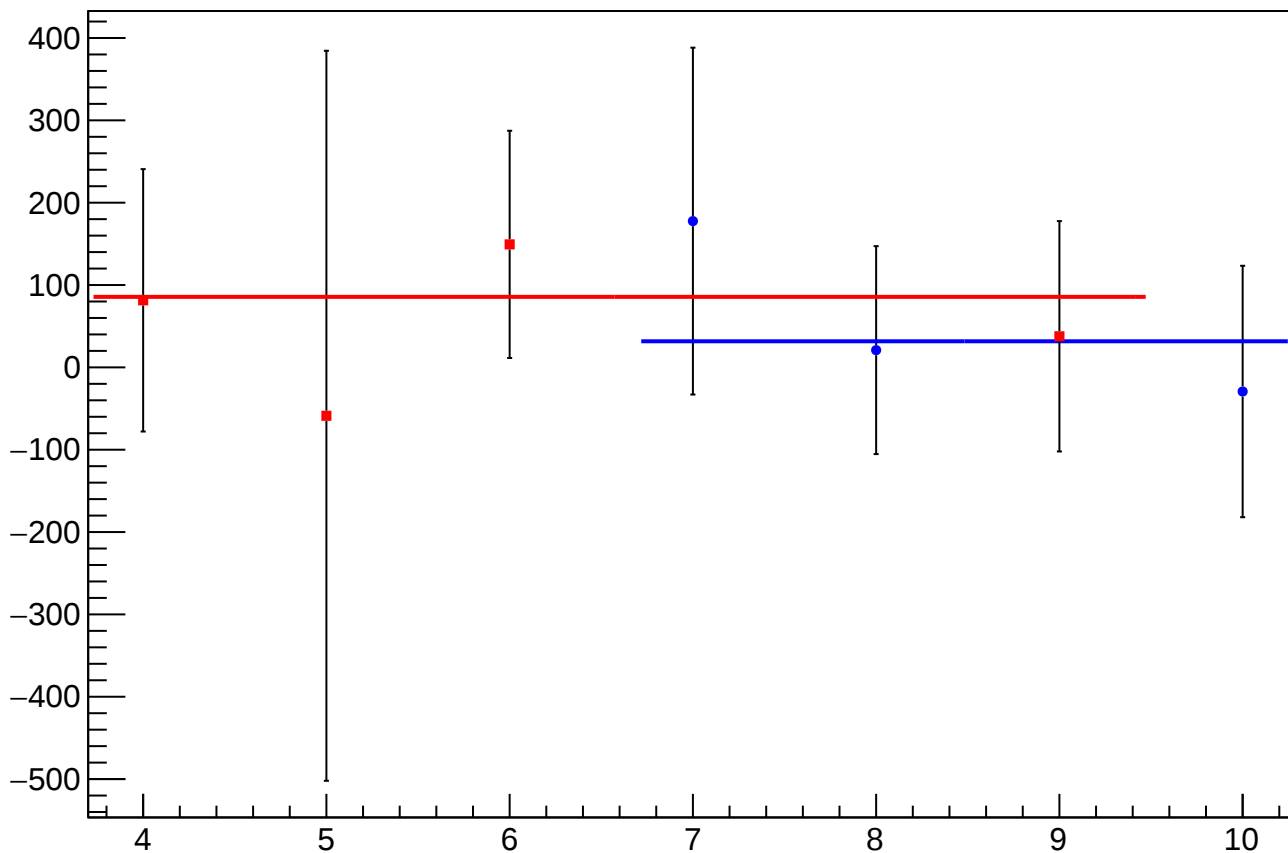
Right Out: 111.928 $\pm$ 0.059  $\chi^2$ /NDF: 54760.3/3

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

125.837 $\pm$ 0.064  $\chi^2$ /NDF: 32860.0/2

111.928 $\pm$ 0.059  $\chi^2$ /NDF: 54760.3/3

# asym\_bcm\_an\_ds3\_mean vs slug



Right In: 31.687 $\pm$ 88.331  $\chi^2$ /NDF: 0.6/2

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

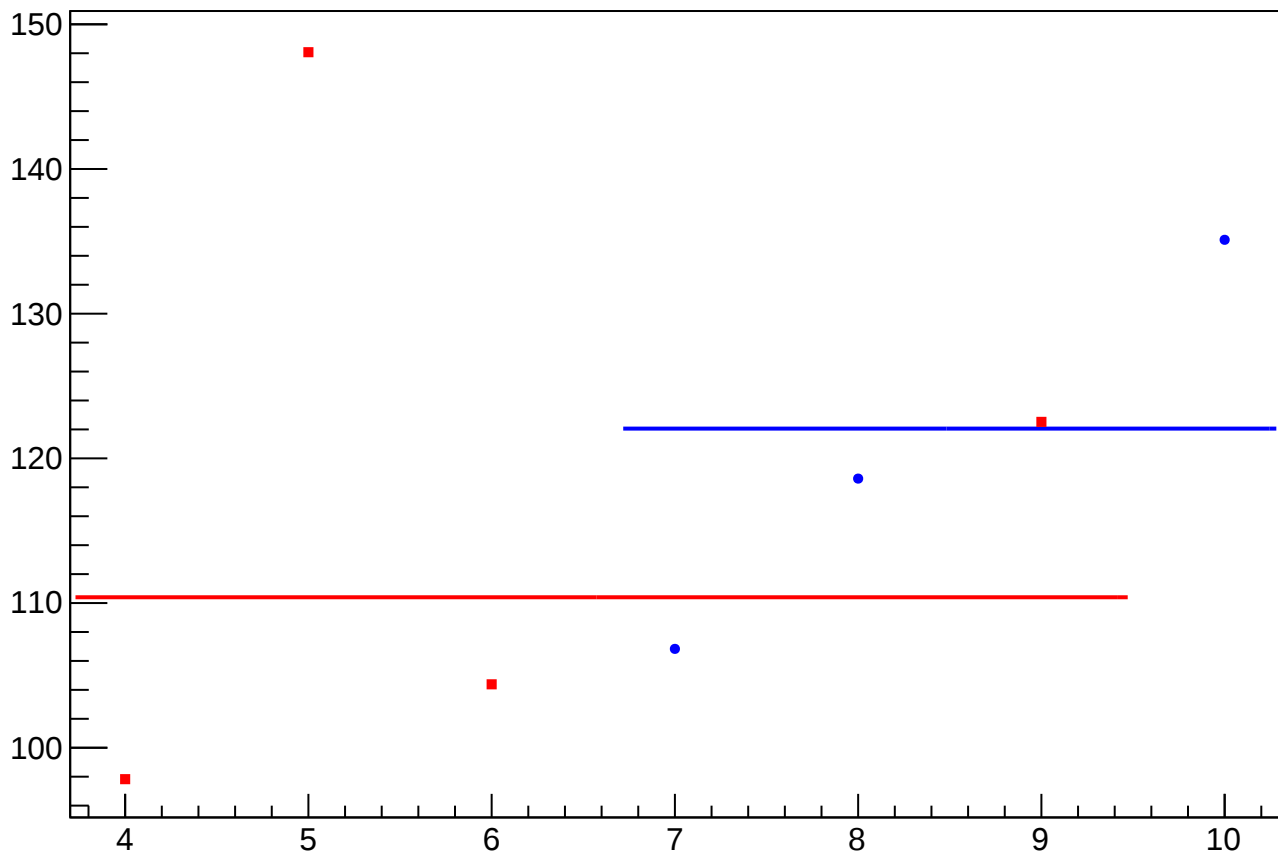
Right Out: 85.629 $\pm$ 82.171  $\chi^2$ /NDF: 0.4/3

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

31.687 $\pm$ 88.331  $\chi^2$ /NDF: 0.6/2

85.629 $\pm$ 82.171  $\chi^2$ /NDF: 0.4/3

# asym\_bcm\_an\_ds3\_rms vs slug



Right In: 122.057+/-0.062  $\chi^2/\text{NDF}$ : 26557.5/2

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

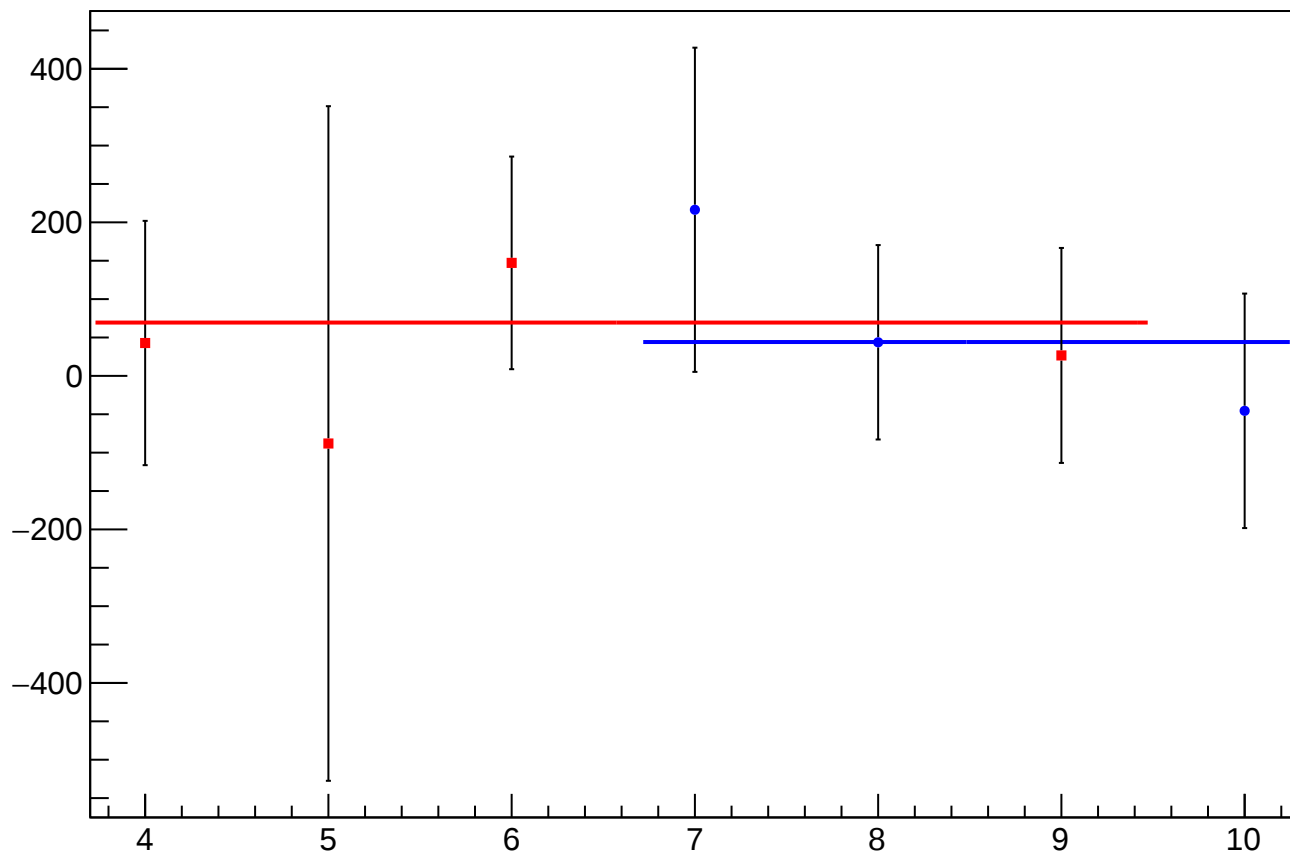
Right Out: 110.400+/-0.058  $\chi^2/\text{NDF}$ : 45713.3/3

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

122.057+/-0.062  $\chi^2/\text{NDF}$ : 26557.5/2

110.400+/-0.058  $\chi^2/\text{NDF}$ : 45713.3/3

# asym\_bcm\_an\_us\_mean vs slug



Right In: 44.100 $\pm$ 88.505  $\chi^2$ /NDF: 1.0/2

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

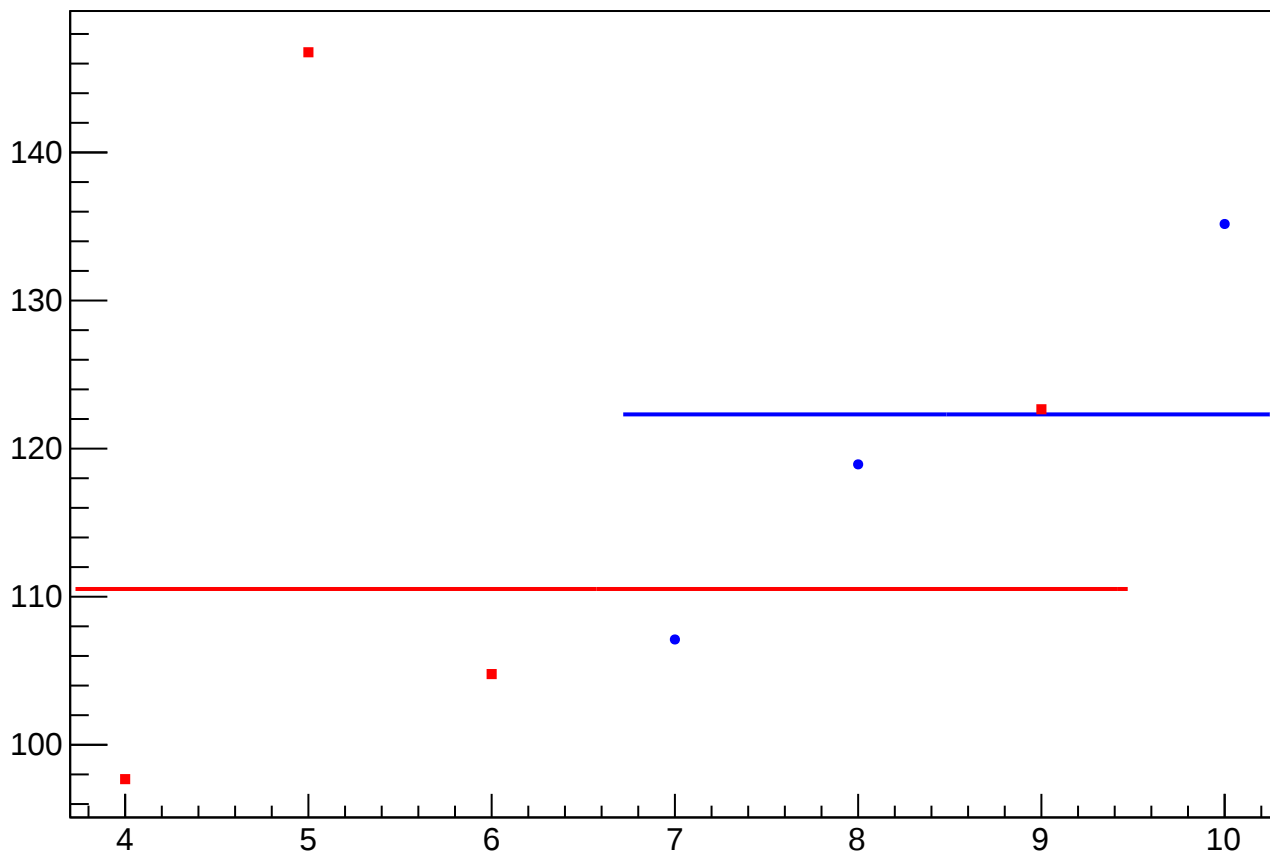
Right Out: 69.455 $\pm$ 82.251  $\chi^2$ /NDF: 0.6/3

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

44.100 $\pm$ 88.505  $\chi^2$ /NDF: 1.0/2

69.455 $\pm$ 82.251  $\chi^2$ /NDF: 0.6/3

# asym\_bcm\_an\_us\_rms vs slug



Right In: 122.311 $\pm$ 0.063  $\chi^2$ /NDF: 25956.8/2

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

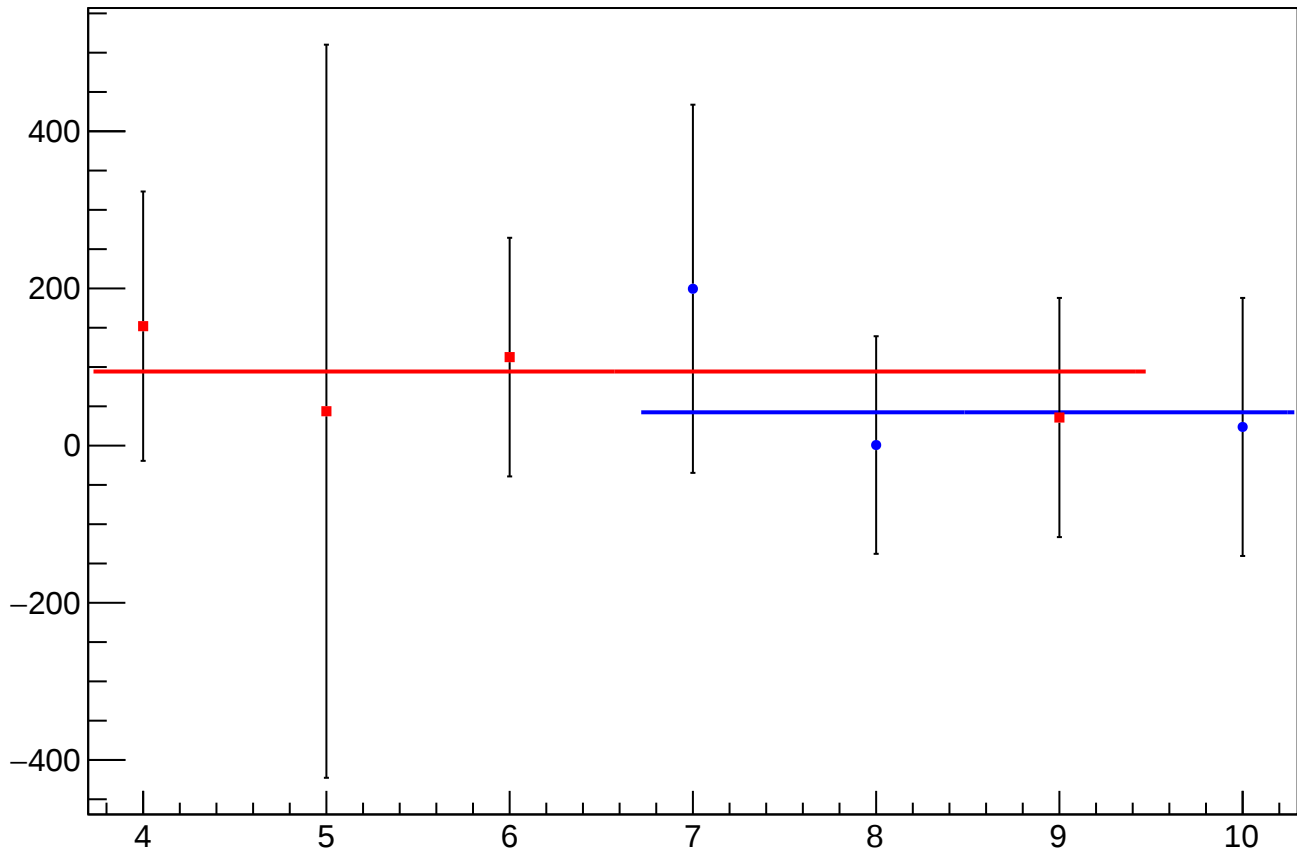
Right Out: 110.522 $\pm$ 0.058  $\chi^2$ /NDF: 45096.4/3

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

122.311 $\pm$ 0.063  $\chi^2$ /NDF: 25956.8/2

110.522 $\pm$ 0.058  $\chi^2$ /NDF: 45096.4/3

# asym\_bcm\_dg\_us\_mean vs slug



Right In: 42.395+/-96.449  $\chi^2/\text{NDF}$ : 0.6/2

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

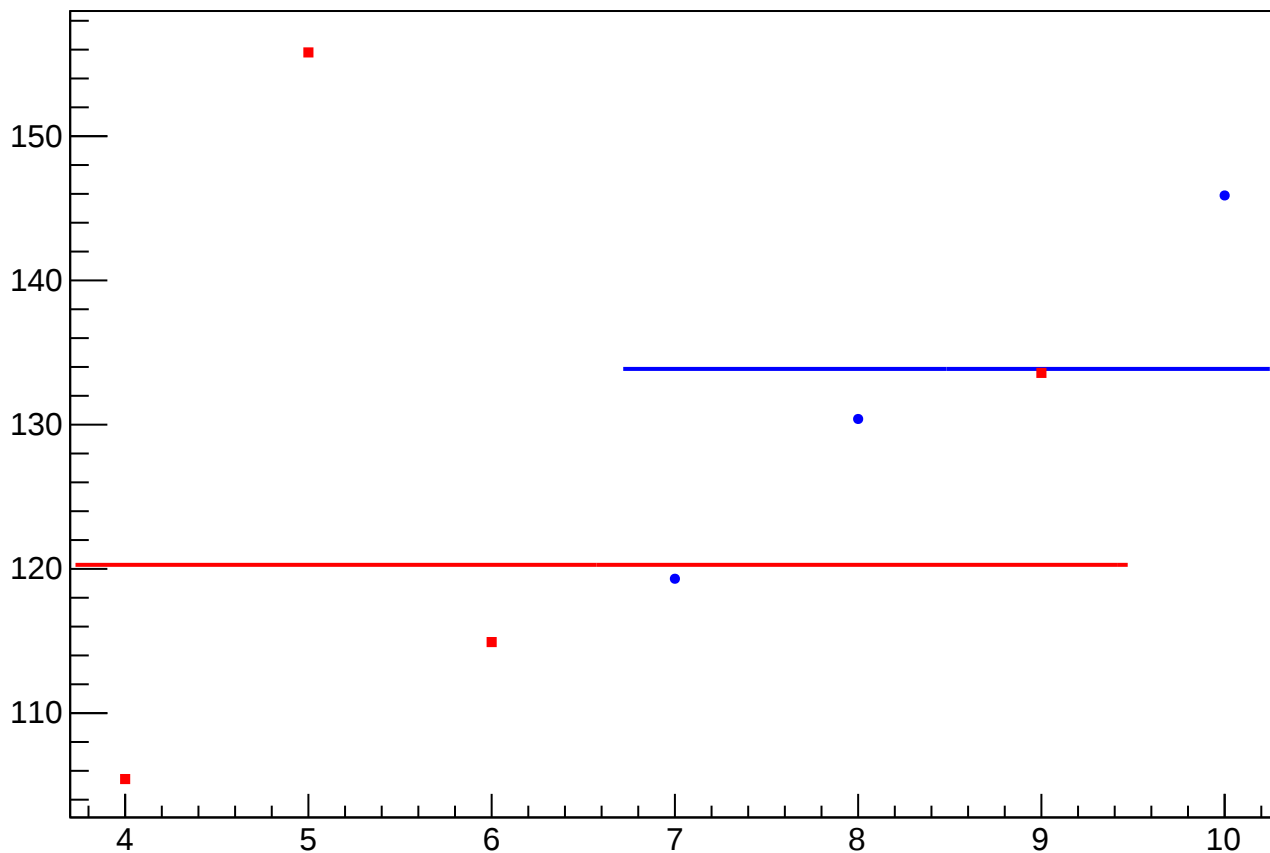
Right Out: 94.296+/-89.368  $\chi^2/\text{NDF}$ : 0.3/3

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

42.395+/-96.449  $\chi^2/\text{NDF}$ : 0.6/2

94.296+/-89.368  $\chi^2/\text{NDF}$ : 0.3/3

# asym\_bcm\_dg\_us\_rms vs slug



Right In: 133.865 $\pm$ 0.068  $\chi^2$ /NDF: 19699.9/2

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

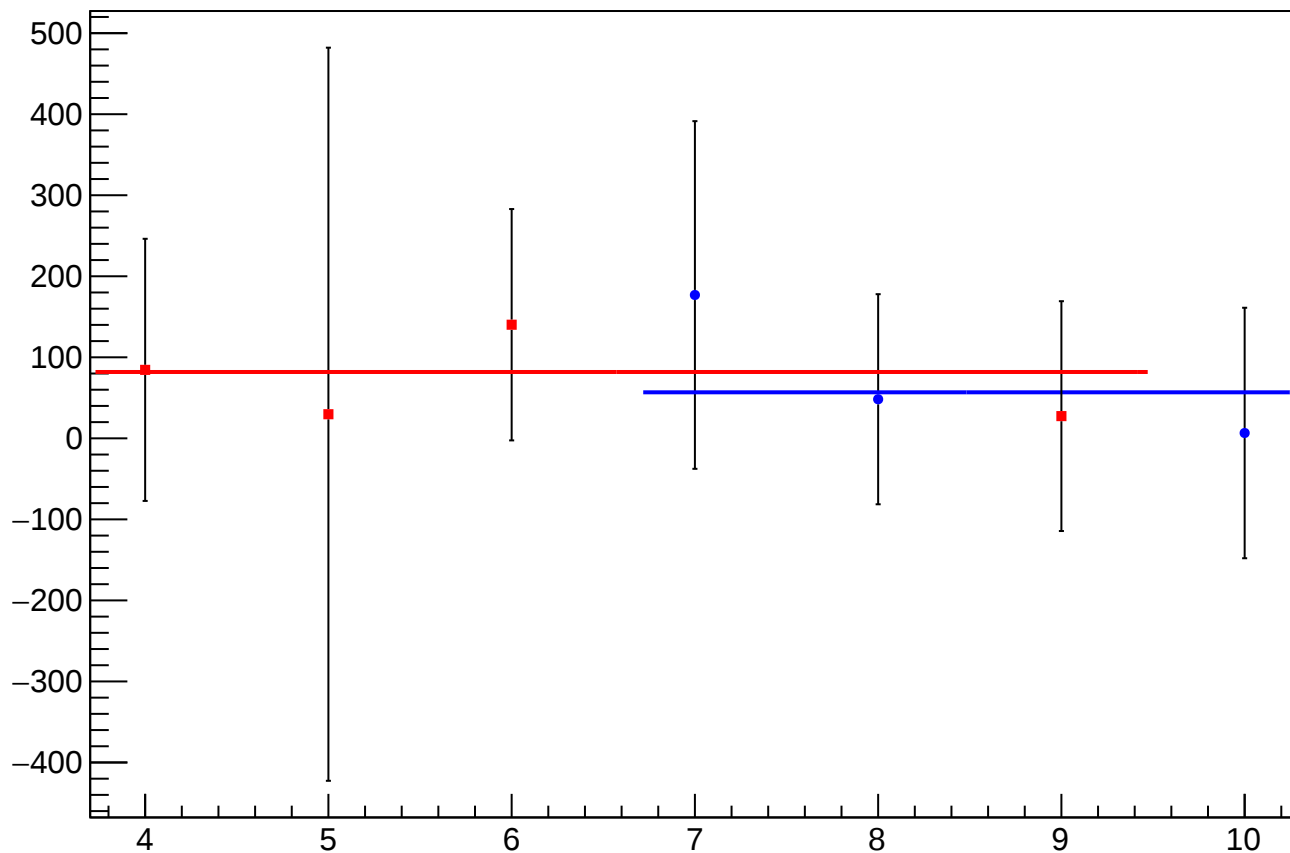
Right Out: 120.281 $\pm$ 0.063  $\chi^2$ /NDF: 44402.3/3

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

133.865 $\pm$ 0.068  $\chi^2$ /NDF: 19699.9/2

120.281 $\pm$ 0.063  $\chi^2$ /NDF: 44402.3/3

# asym\_bcm\_dg\_ds\_mean vs slug



Right In: 56.798+/-90.134  $\chi^2/\text{NDF}$ : 0.4/2

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

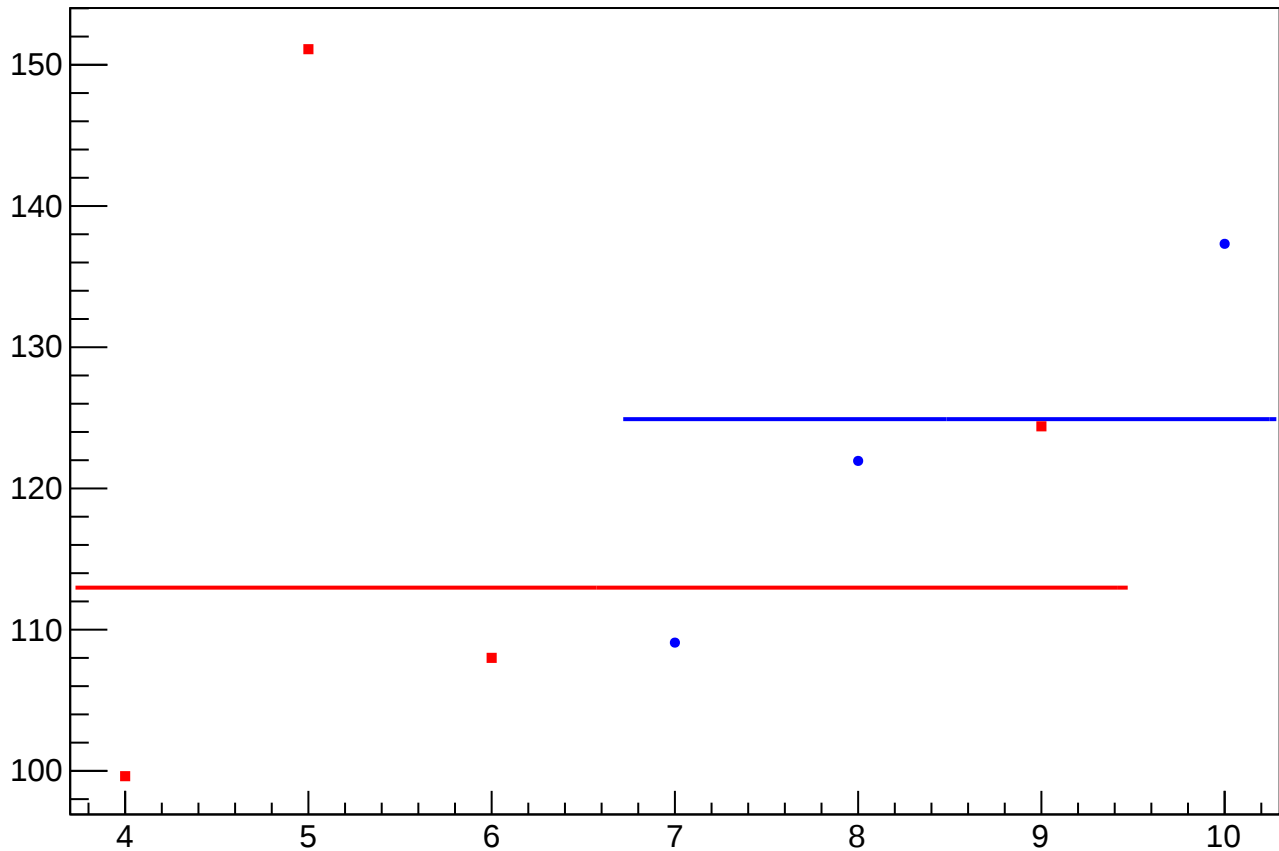
Right Out: 81.882+/-83.943  $\chi^2/\text{NDF}$ : 0.3/3

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

56.798+/-90.134  $\chi^2/\text{NDF}$ : 0.4/2

81.882+/-83.943  $\chi^2/\text{NDF}$ : 0.3/3

# asym\_bcm\_dg\_ds\_rms vs slug



Right In: 124.908 $\pm$ 0.064  $\chi^2$ /NDF: 24829.1/2

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

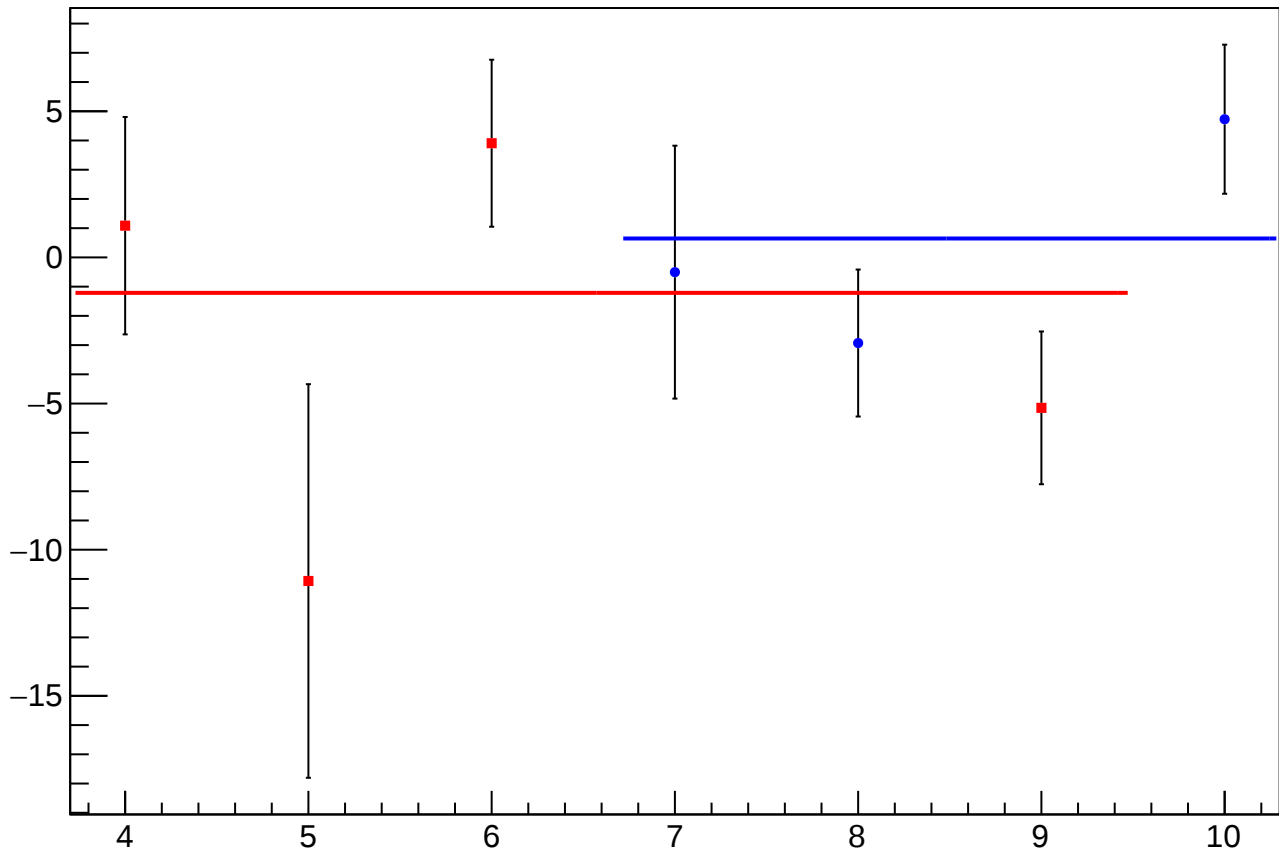
124.908 $\pm$ 0.064  $\chi^2$ /NDF: 24829.1/2

Right Out: 112.977 $\pm$ 0.059  $\chi^2$ /NDF: 43243.6/3

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

112.977 $\pm$ 0.059  $\chi^2$ /NDF: 43243.6/3

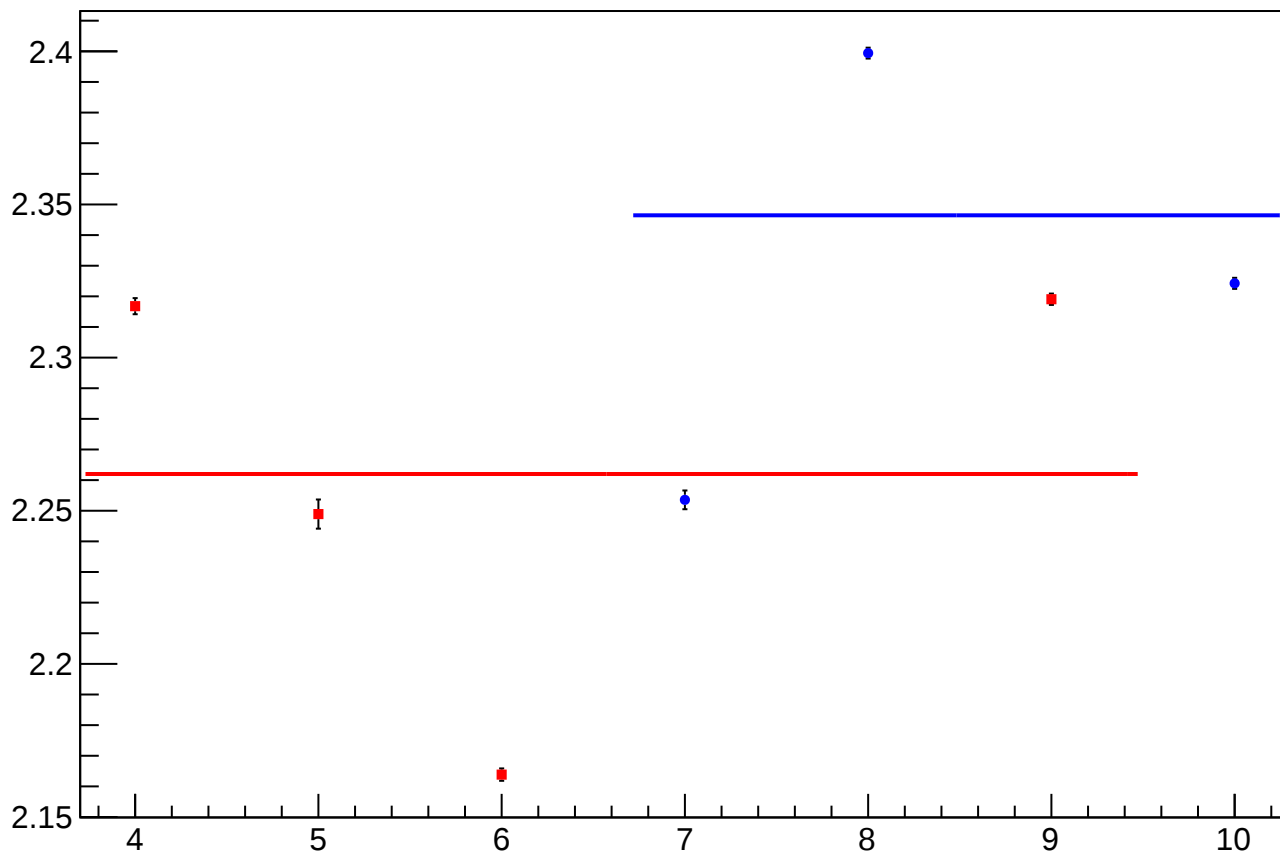
# asym\_cav4bQ\_mean vs slug



Right In: 0.647 $\pm$ 1.654  $\chi^2$ /NDF: 4.7/2  
 Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0  
 Right Out: -1.213 $\pm$ 1.659  $\chi^2$ /NDF: 8.0/3  
 Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

0.647 $\pm$ 1.654  $\chi^2$ /NDF: 4.7/2  
 -1.213 $\pm$ 1.659  $\chi^2$ /NDF: 8.0/3

# asym\_cav4bQ\_rms vs slug



Right In: 2.346+/-0.001  $\chi^2/\text{NDF}$ : 1961.4/2

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

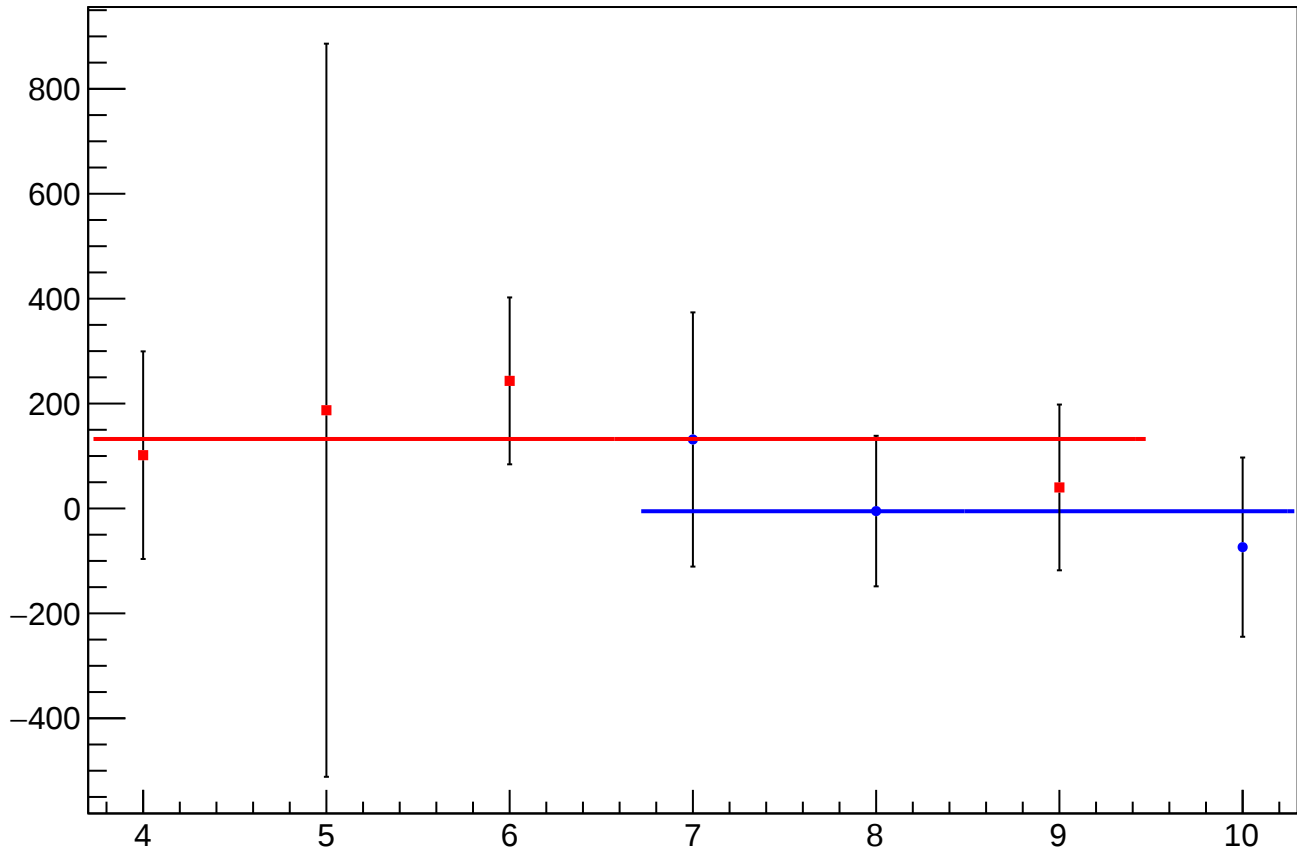
Right Out: 2.262+/-0.001  $\chi^2/\text{NDF}$ : 3757.0/3

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

2.346+/-0.001  $\chi^2/\text{NDF}$ : 1961.4/2

2.262+/-0.001  $\chi^2/\text{NDF}$ : 3757.0/3

# asym\_cav4cQ\_mean vs slug



Right In:  $-5.277 \pm 100.080$   $\chi^2/\text{NDF}$ : 0.5/2

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

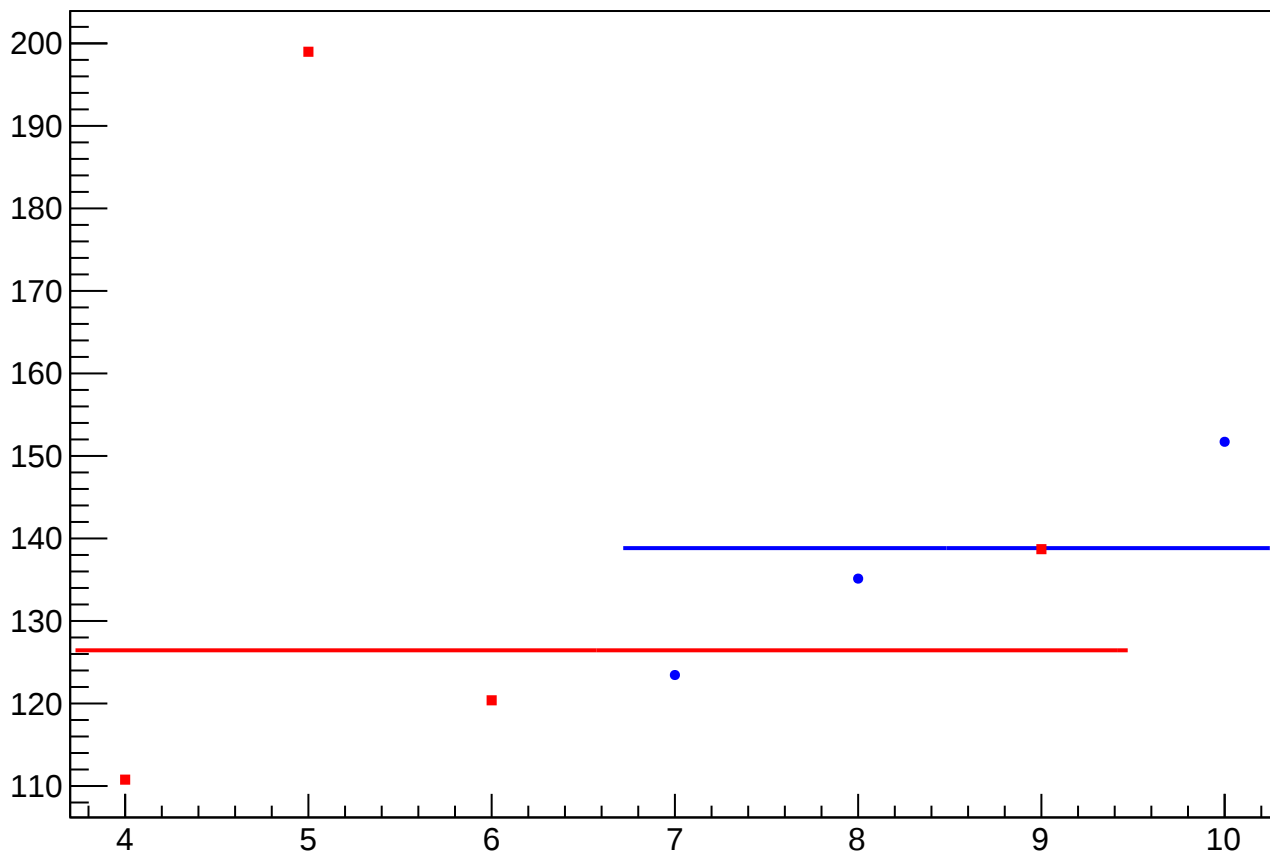
Right Out:  $132.482 \pm 96.607$   $\chi^2/\text{NDF}$ : 0.9/3

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

$-5.277 \pm 100.080$   $\chi^2/\text{NDF}$ : 0.5/2

$132.482 \pm 96.607$   $\chi^2/\text{NDF}$ : 0.9/3

# asym\_cav4cQ\_rms vs slug



Right In: 138.830 $\pm$ 0.071  $\chi^2$ /NDF: 20756.6/2

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

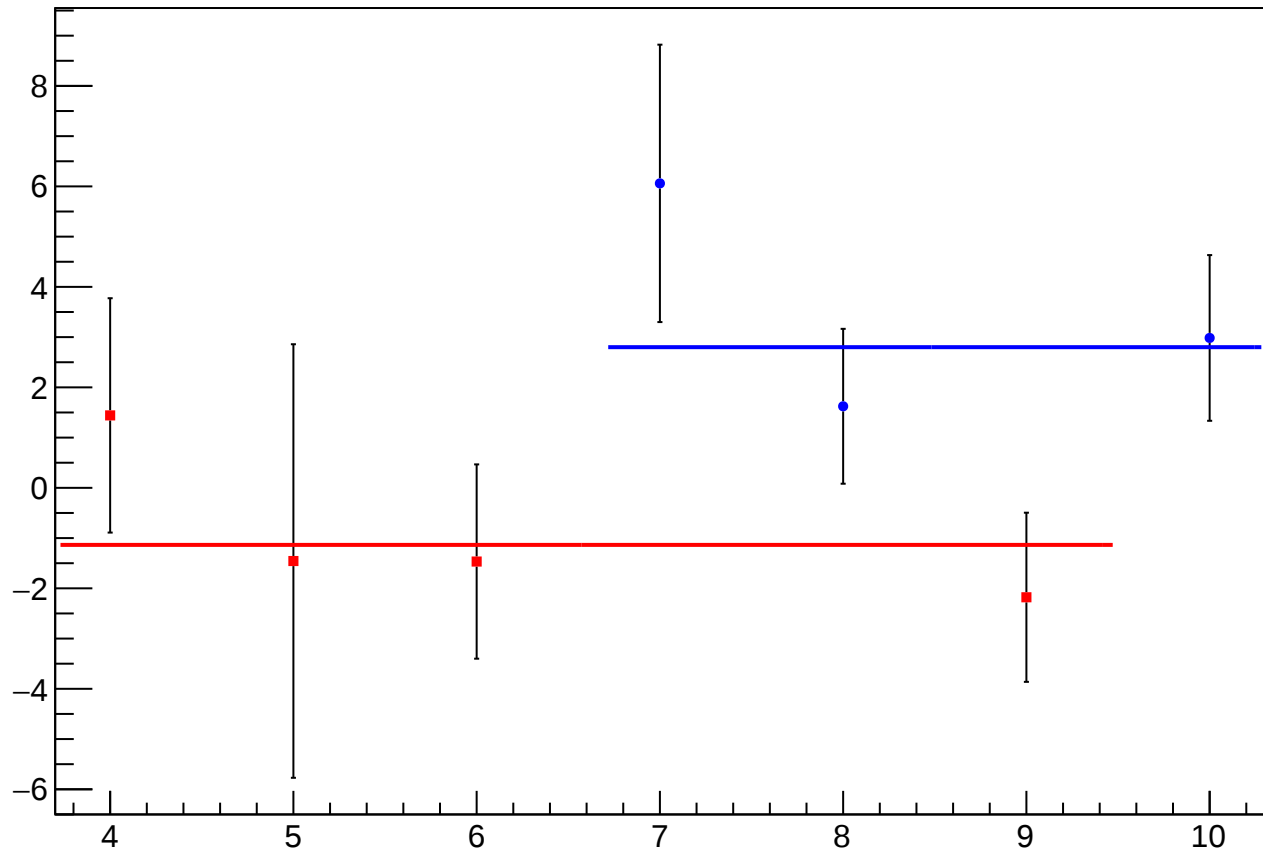
Right Out: 126.444 $\pm$ 0.068  $\chi^2$ /NDF: 49032.4/3

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

138.830 $\pm$ 0.071  $\chi^2$ /NDF: 20756.6/2

126.444 $\pm$ 0.068  $\chi^2$ /NDF: 49032.4/3

asym\_cav4dQ\_mean vs slug



Right In: 2.800 $\pm$ 1.043  $\chi^2$ /NDF: 2.0/2

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

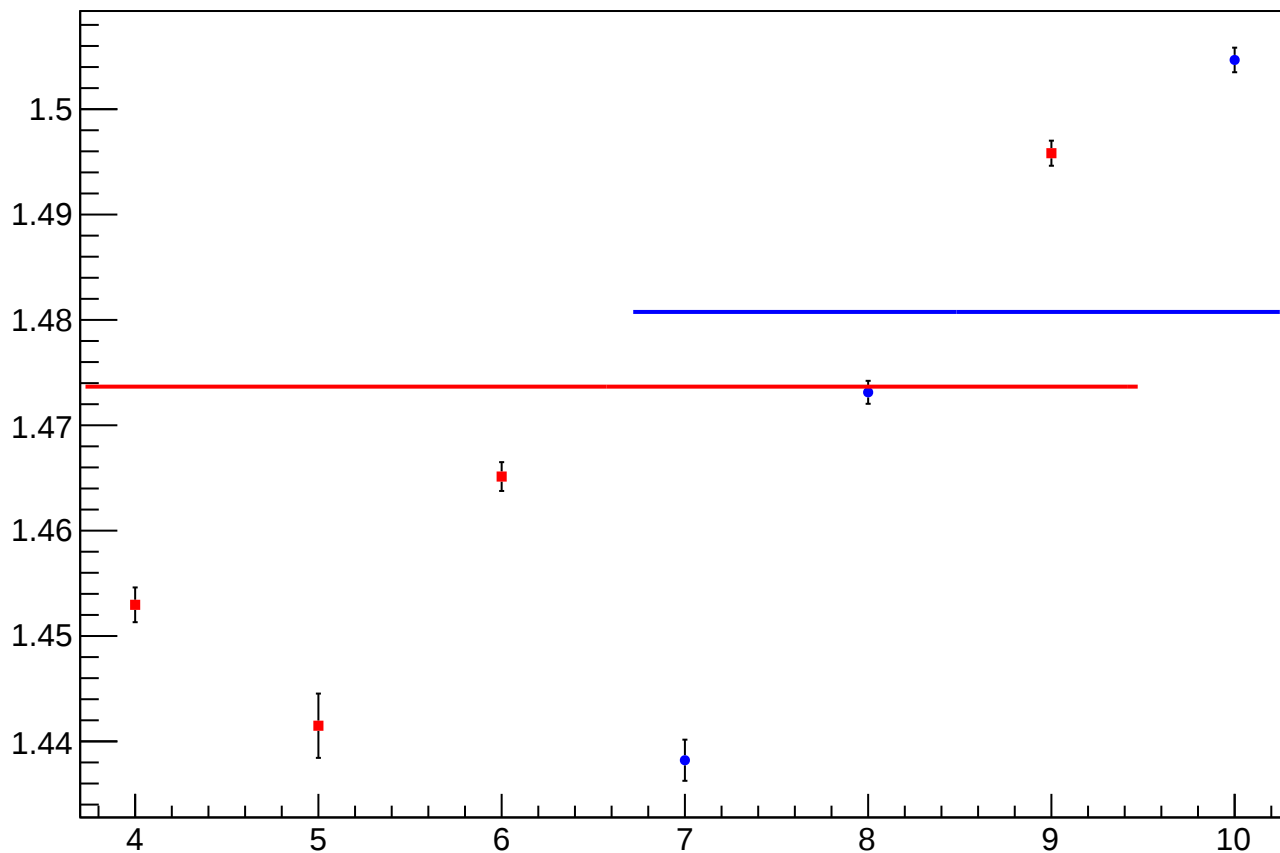
Right Out: -1.135 $\pm$ 1.080  $\chi^2$ /NDF: 1.6/3

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

2.800 $\pm$ 1.043  $\chi^2$ /NDF: 2.0/2

-1.135 $\pm$ 1.080  $\chi^2$ /NDF: 1.6/3

# asym\_cav4dQ\_rms vs slug



Right In: 1.481+/-0.001  $\chi^2/\text{NDF}$ : 944.6/2

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

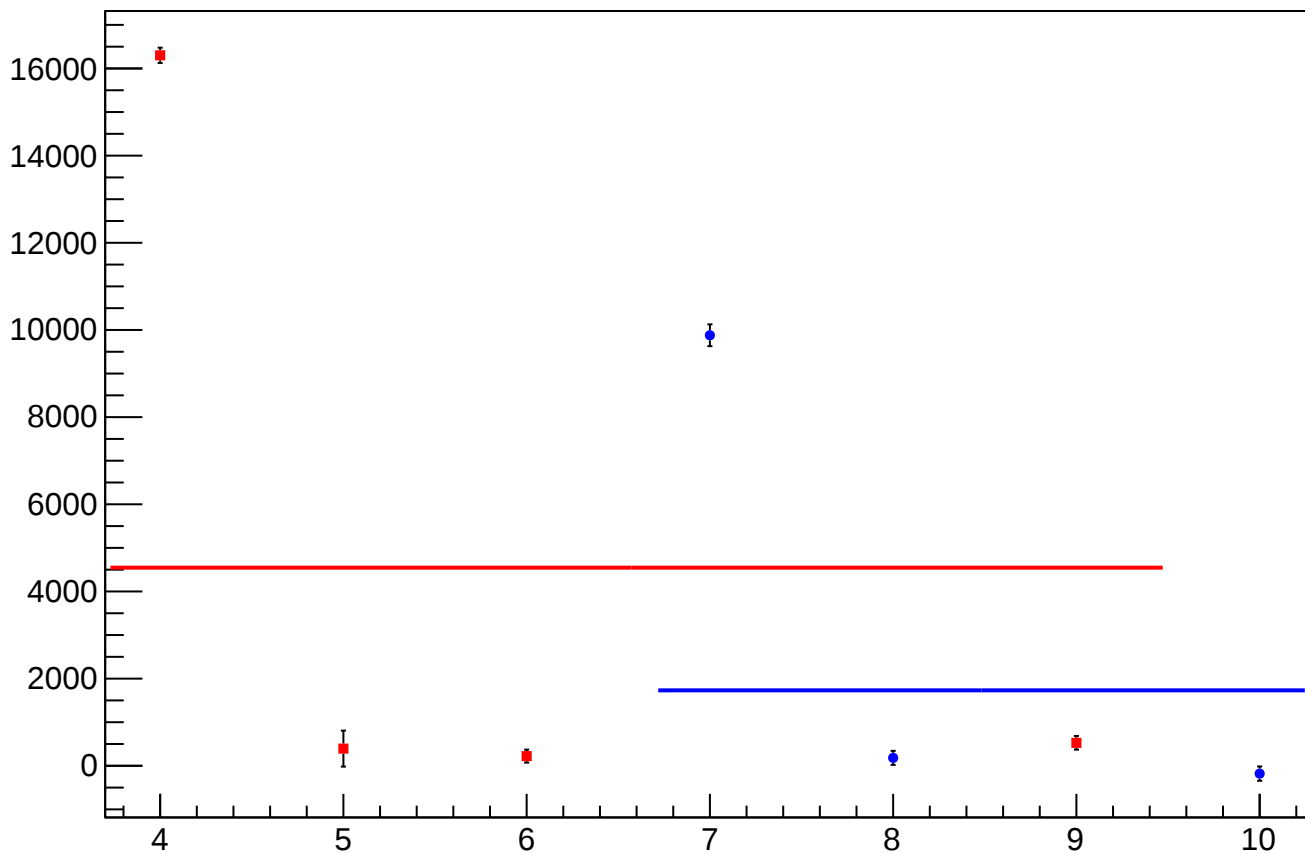
Right Out: 1.474+/-0.001  $\chi^2/\text{NDF}$ : 654.3/3

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

1.481+/-0.001  $\chi^2/\text{NDF}$ : 944.6/2

1.474+/-0.001  $\chi^2/\text{NDF}$ : 654.3/3

# asym\_bcm0l02\_mean vs slug



Right In: 1730.967+/-104.503  $\chi^2/\text{NDF}$ : 1290.2/2

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

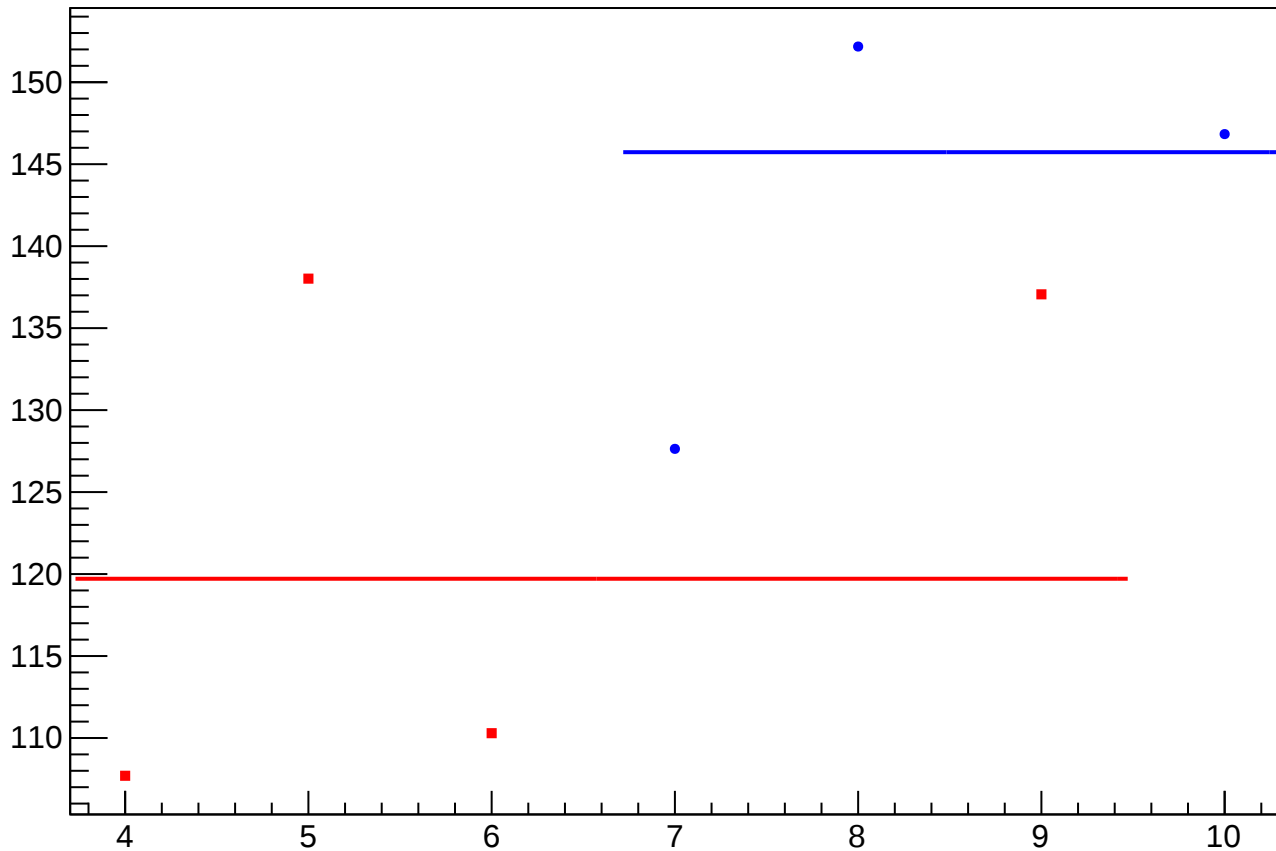
Right Out: 4546.151+/-89.851  $\chi^2/\text{NDF}$ : 6084.8/3

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

1730.967+/-104.503  $\chi^2/\text{NDF}$ : 1290.2/2

4546.151+/-89.851  $\chi^2/\text{NDF}$ : 6084.8/3

# asym\_bcm0l02\_rms vs slug



Right In: 145.732 $\pm$ 0.074  $\chi^2$ /NDF: 13780.9/2

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

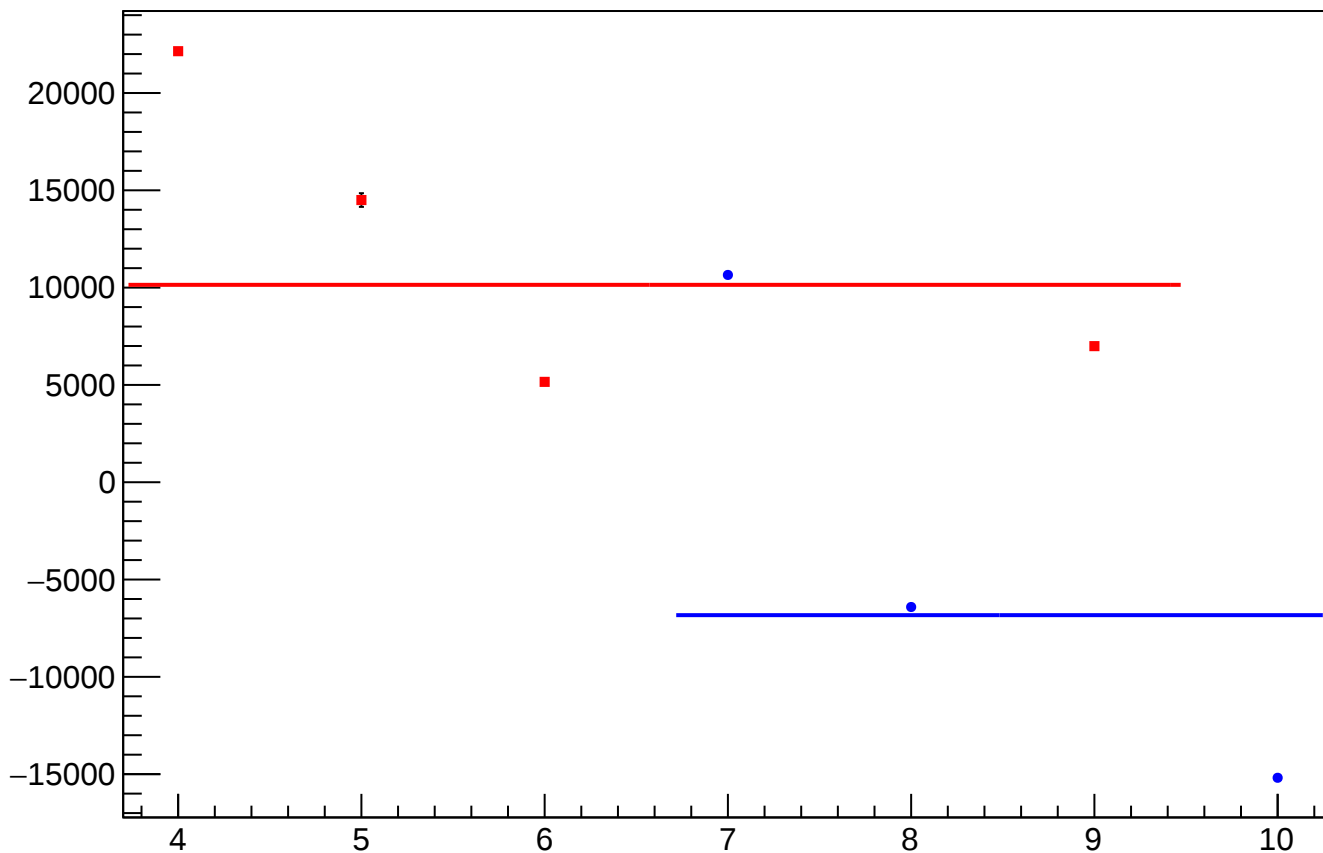
145.732 $\pm$ 0.074  $\chi^2$ /NDF: 13780.9/2

Right Out: 119.714 $\pm$ 0.064  $\chi^2$ /NDF: 45748.1/3

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

119.714 $\pm$ 0.064  $\chi^2$ /NDF: 45748.1/3

# asym\_bpm2i01WS\_mean vs slug



Right In: -6829.945+/-80.344  $\chi^2/\text{NDF}$ : 8256.8/2

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

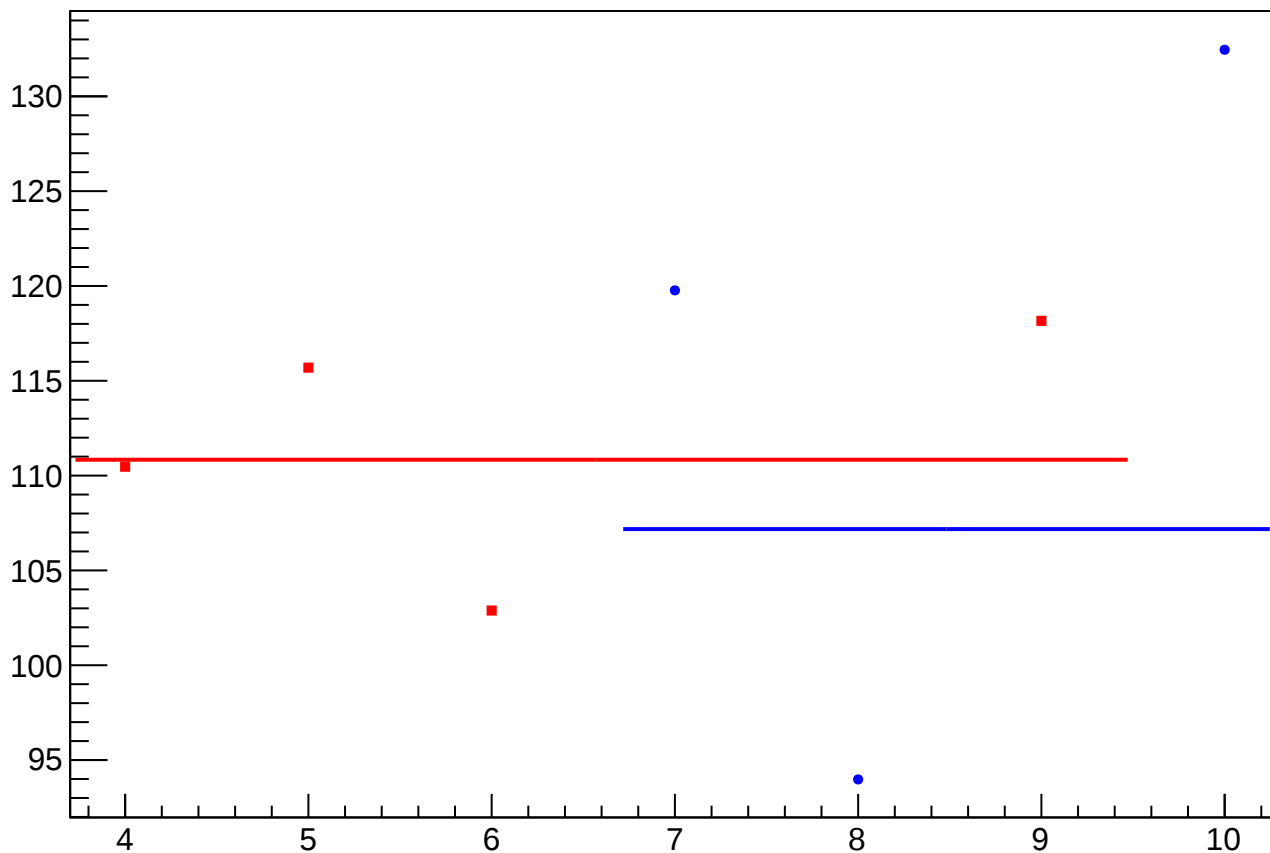
Right Out: 10142.882+/-85.266  $\chi^2/\text{NDF}$ : 6271.4/3

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

-6829.945+/-80.344  $\chi^2/\text{NDF}$ : 8256.8/2

10142.882+/-85.266  $\chi^2/\text{NDF}$ : 6271.4/3

# asym\_bpm2i01WS\_rms vs slug



Right In: 107.179 $\pm$ 0.057  $\chi^2$ /NDF: 91935.4/2

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

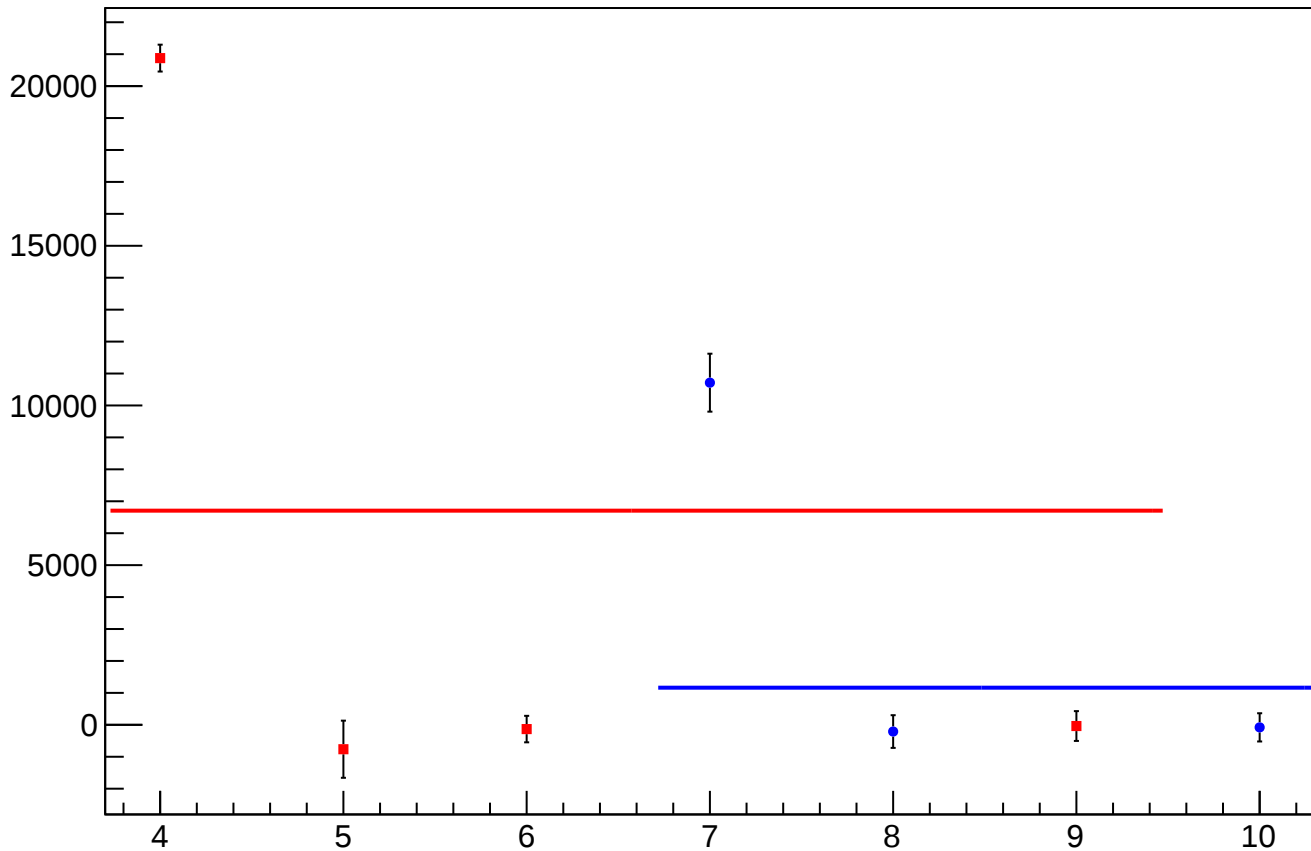
Right Out: 110.837 $\pm$ 0.060  $\chi^2$ /NDF: 11949.7/3

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

107.179 $\pm$ 0.057  $\chi^2$ /NDF: 91935.4/2

110.837 $\pm$ 0.060  $\chi^2$ /NDF: 11949.7/3

# asym\_bpm0i07WS\_mean vs slug



Right In: 1162.779+/-313.899  $\chi^2/\text{NDF}$ : 125.9/2

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

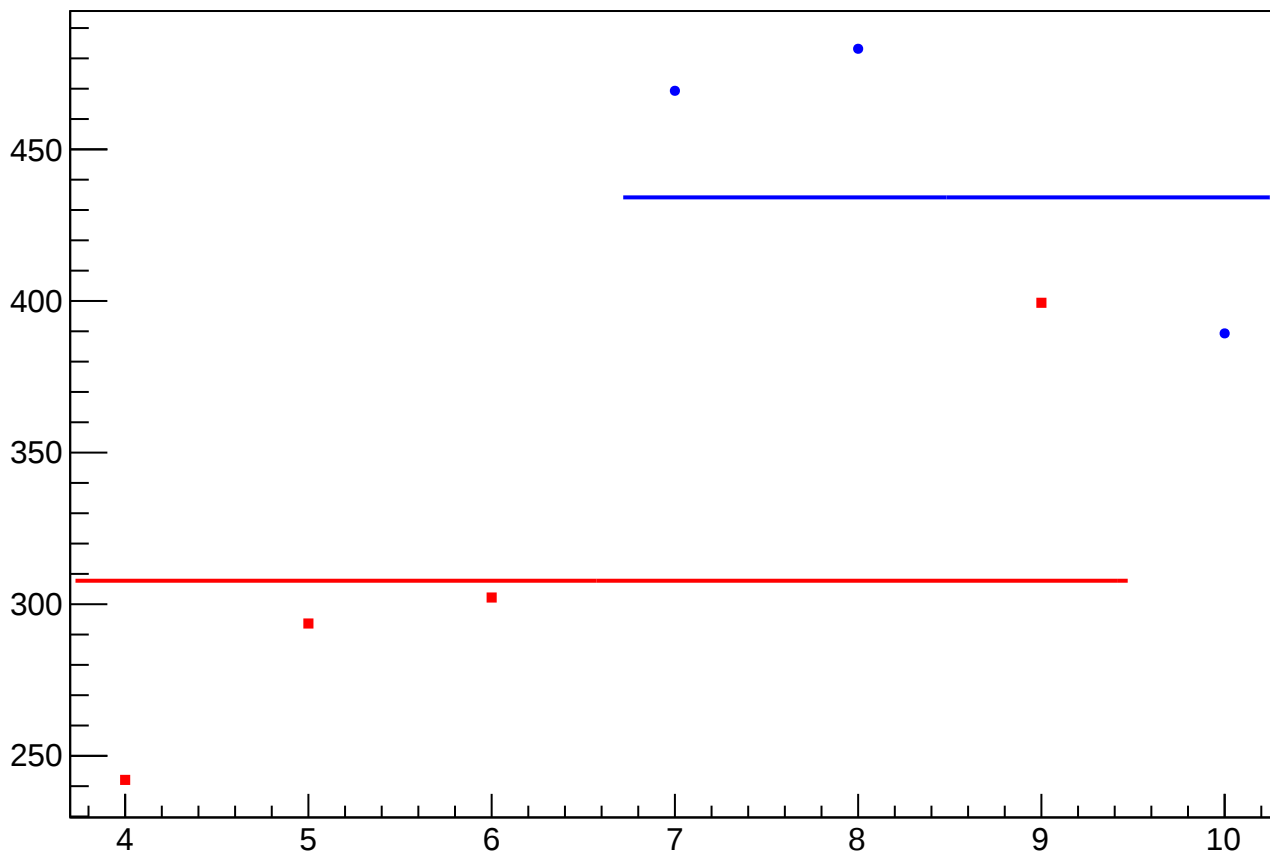
Right Out: 6705.933+/-240.377  $\chi^2/\text{NDF}$ : 1685.3/3

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

1162.779+/-313.899  $\chi^2/\text{NDF}$ : 125.9/2

6705.933+/-240.377  $\chi^2/\text{NDF}$ : 1685.3/3

# asym\_bpm0i07WS\_rms vs slug



Right In: 434.162+/-0.222  $\chi^2/\text{NDF}$ : 41919.4/2

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

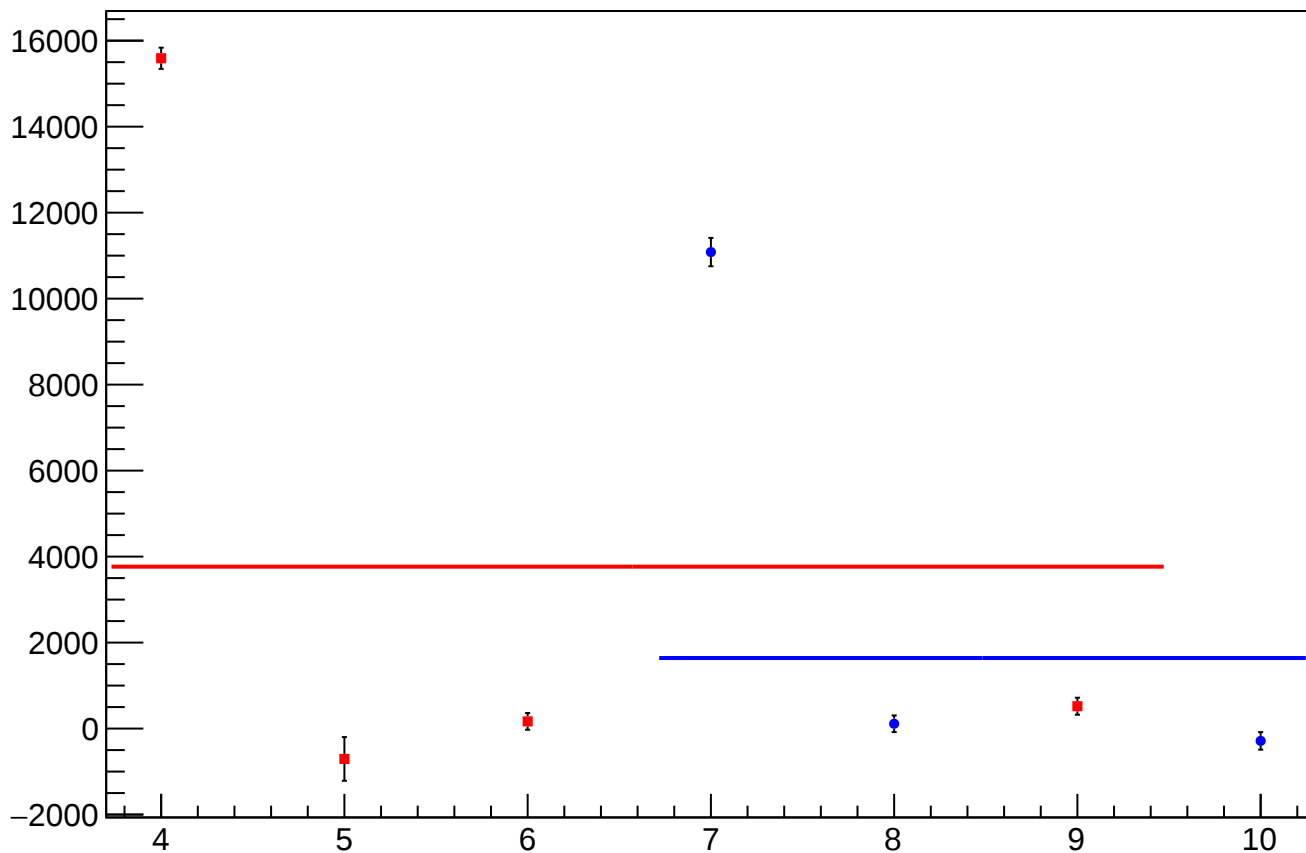
434.162+/-0.222  $\chi^2/\text{NDF}$ : 41919.4/2

Right Out: 307.746+/-0.170  $\chi^2/\text{NDF}$ : 126758.0/3

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

307.746+/-0.170  $\chi^2/\text{NDF}$ : 126758.0/3

# asym\_bpm0l01WS\_mean vs slug



Right In: 1641.268+/-129.335  $\chi^2/\text{NDF}$ : 971.5/2

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

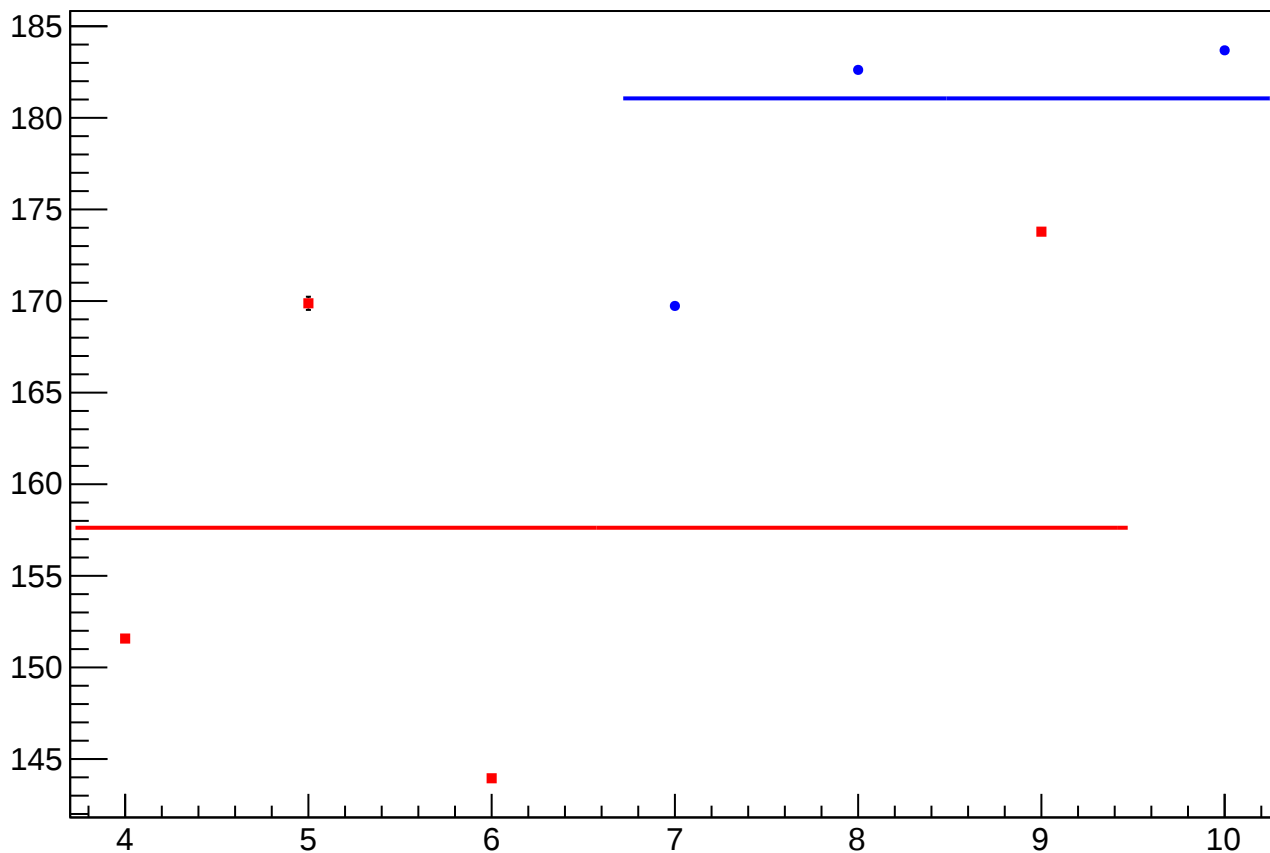
Right Out: 3766.058+/-117.720  $\chi^2/\text{NDF}$ : 2990.3/3

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

1641.268+/-129.335  $\chi^2/\text{NDF}$ : 971.5/2

3766.058+/-117.720  $\chi^2/\text{NDF}$ : 2990.3/3

# asym\_bpm0l01WS\_rms vs slug



Right In: 181.062 $\pm$ 0.091  $\chi^2$ /NDF: 2820.5/2

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

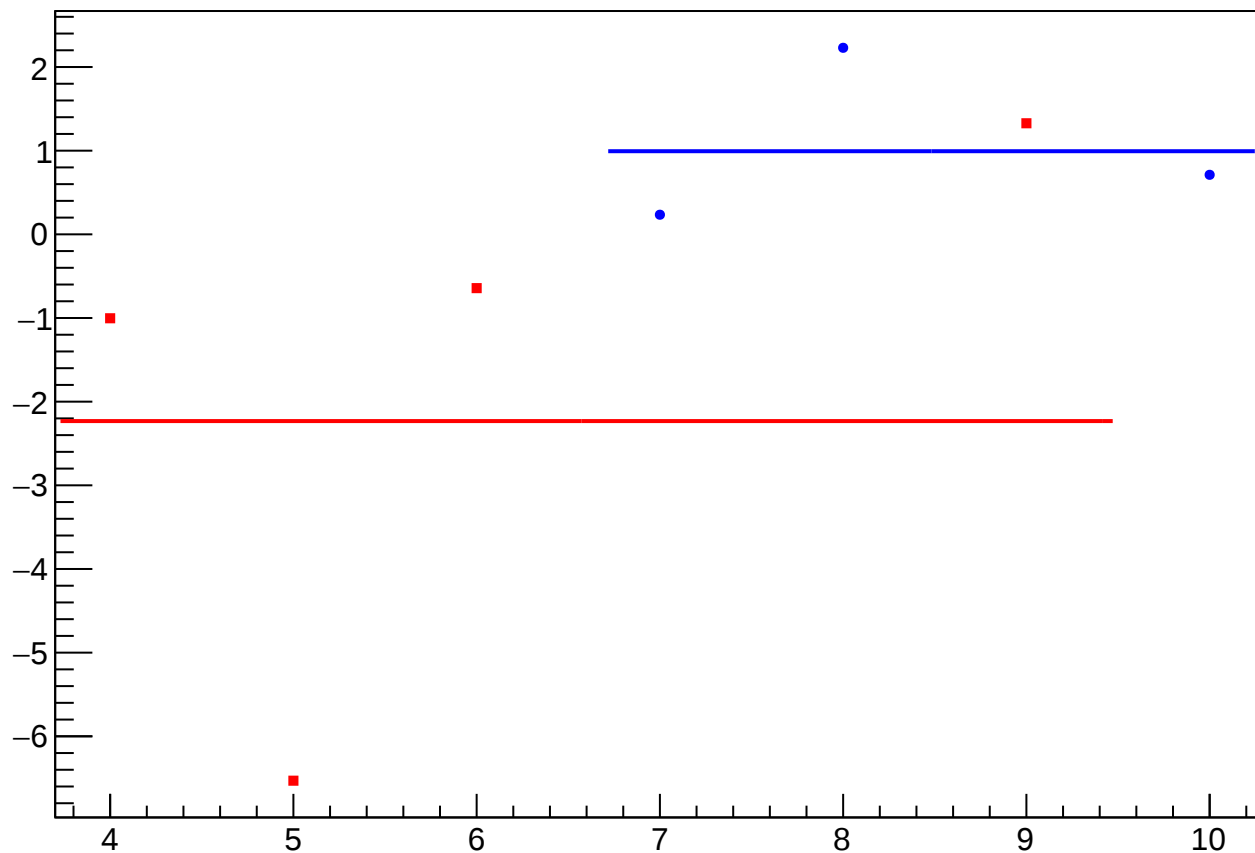
Right Out: 157.625 $\pm$ 0.083  $\chi^2$ /NDF: 25531.8/3

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

181.062 $\pm$ 0.091  $\chi^2$ /NDF: 2820.5/2

157.625 $\pm$ 0.083  $\chi^2$ /NDF: 25531.8/3

yield\_cav4bX\_mean vs slug



Right In: 0.994 $\pm$ 0.001  $\chi^2$ /NDF: 898154.5/2

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

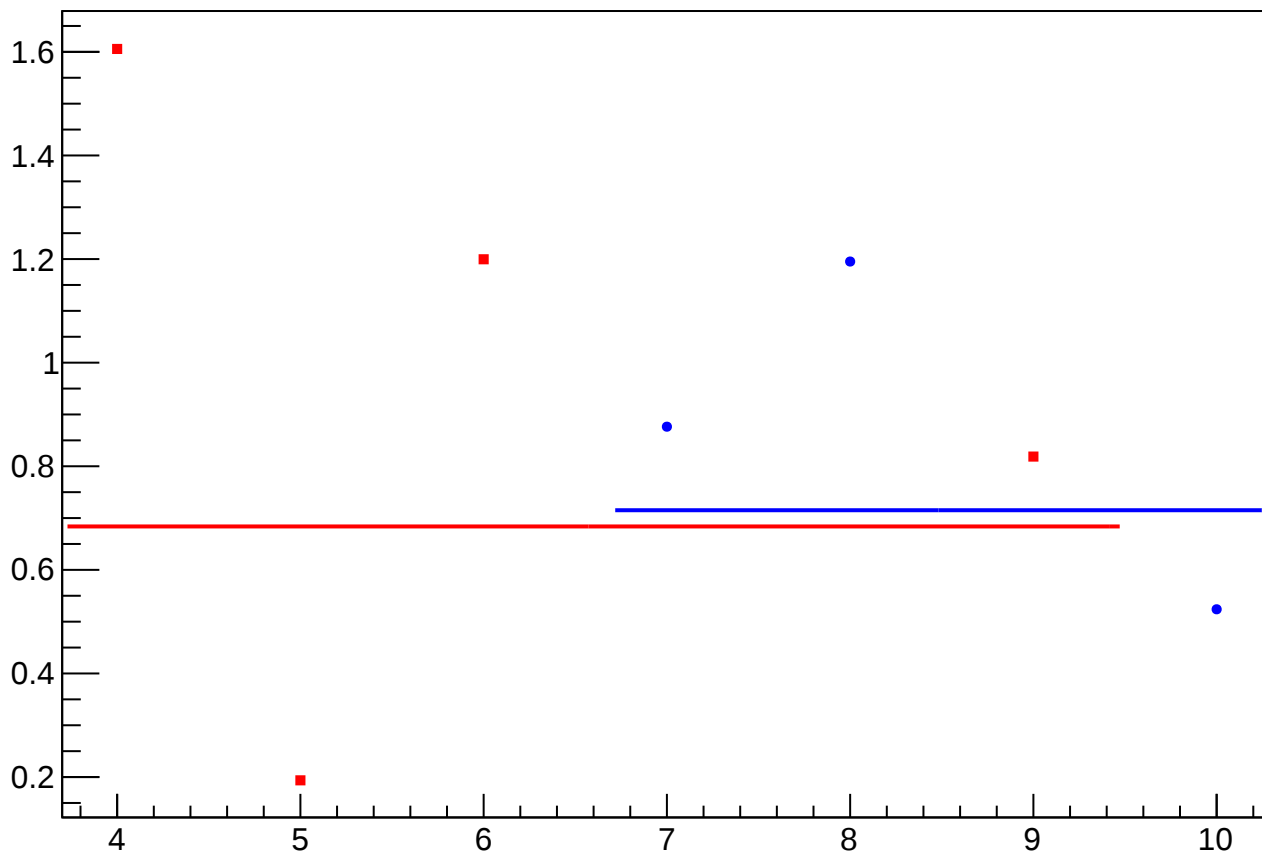
Right Out: -2.232 $\pm$ 0.001  $\chi^2$ /NDF: 19765144.2/3

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

0.994 $\pm$ 0.001  $\chi^2$ /NDF: 898154.5/2

-2.232 $\pm$ 0.001  $\chi^2$ /NDF: 19765144.2/3

# yield\_cav4bX\_rms vs slug



Right In: 0.715 $\pm$ 0.001  $\chi^2$ /NDF: 306081.1/2

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

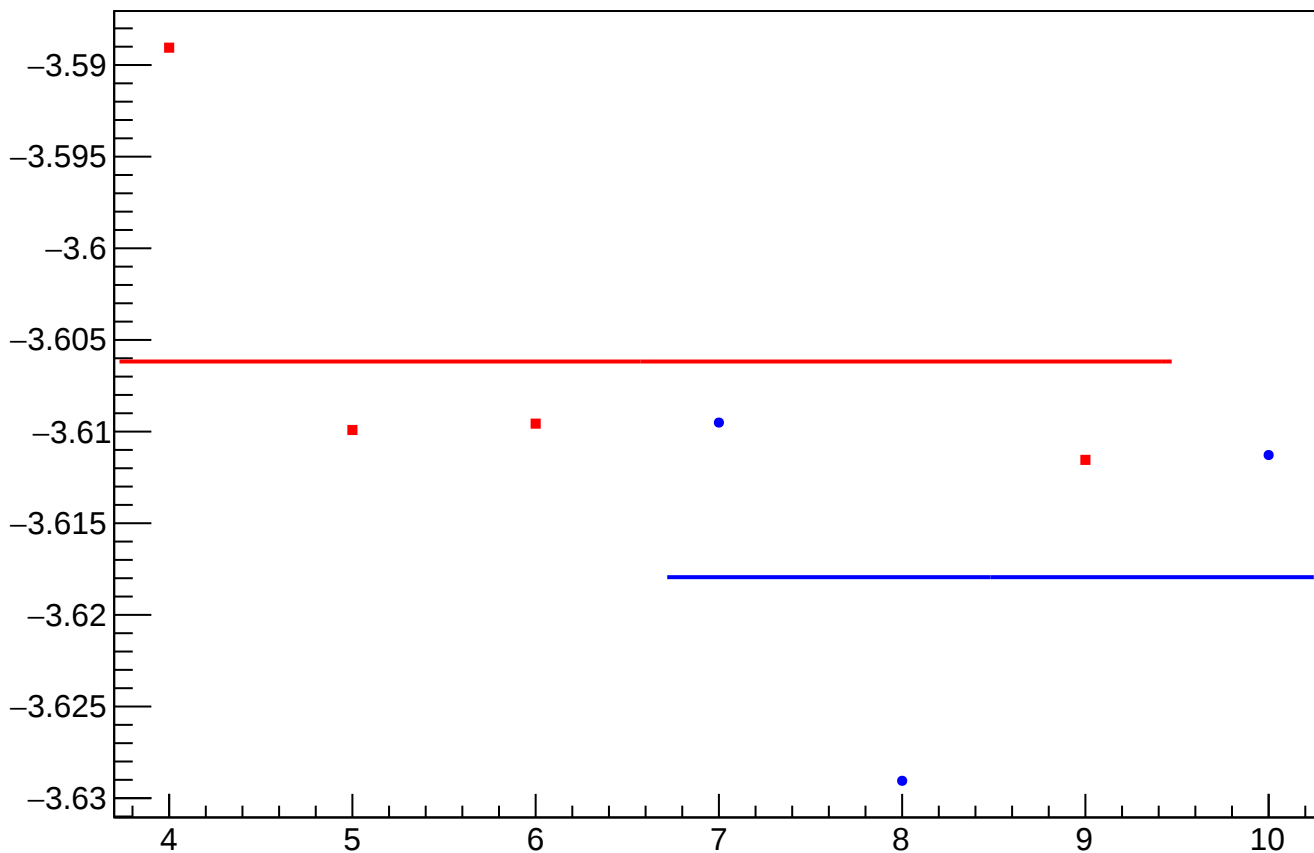
Right Out: 0.684 $\pm$ 0.001  $\chi^2$ /NDF: 610643.9/3

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

0.715 $\pm$ 0.001  $\chi^2$ /NDF: 306081.1/2

0.684 $\pm$ 0.001  $\chi^2$ /NDF: 610643.9/3

yield\_cav4bY\_mean vs slug



Right In: -3.618+/-0.000  $\chi^2/\text{NDF}$ : 30090406502.4/2

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

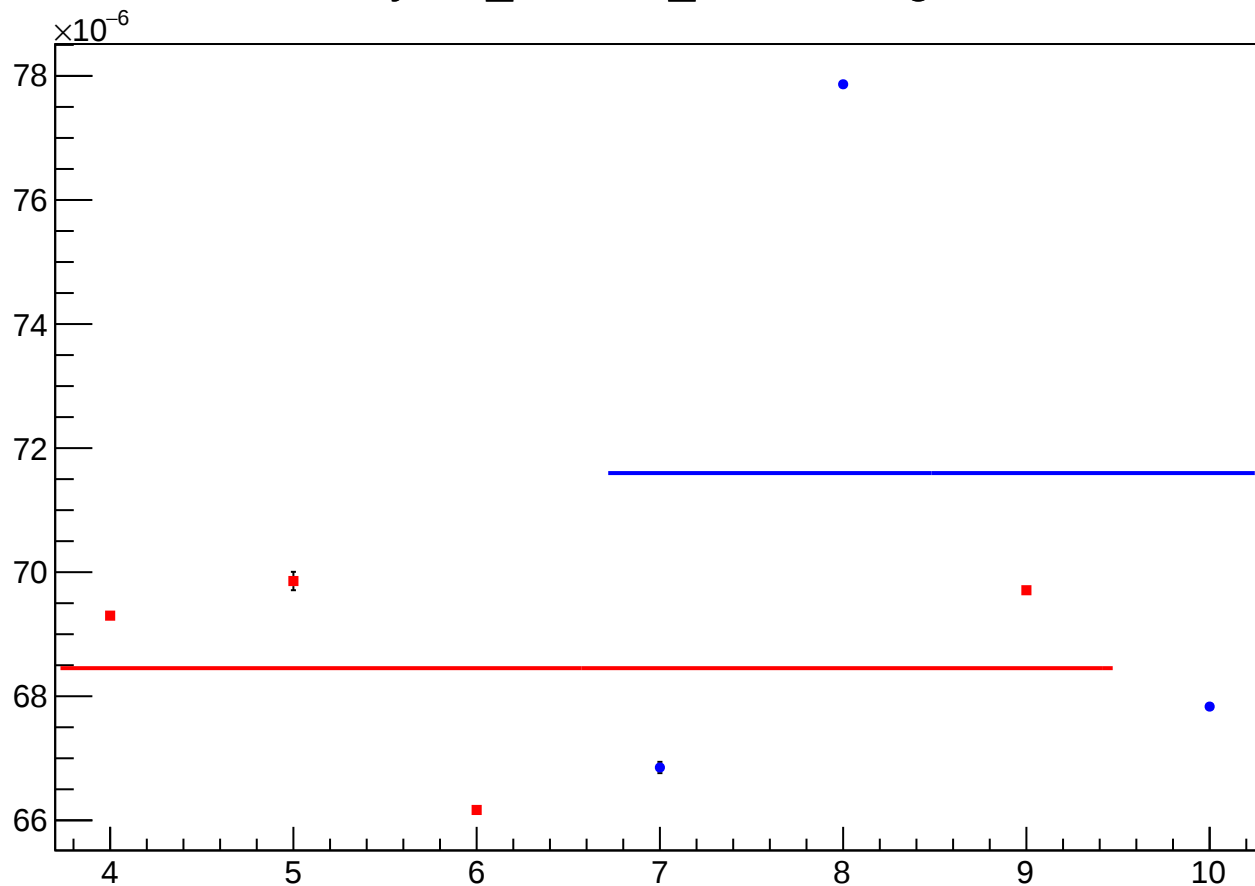
Right Out: -3.606+/-0.000  $\chi^2/\text{NDF}$ : 30047208601.7/3

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

-3.618+/-0.000  $\chi^2/\text{NDF}$ : 30090406502.4/2

-3.606+/-0.000  $\chi^2/\text{NDF}$ : 30047208601.7/3

# yield\_cav4bY\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 19151.6/2

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

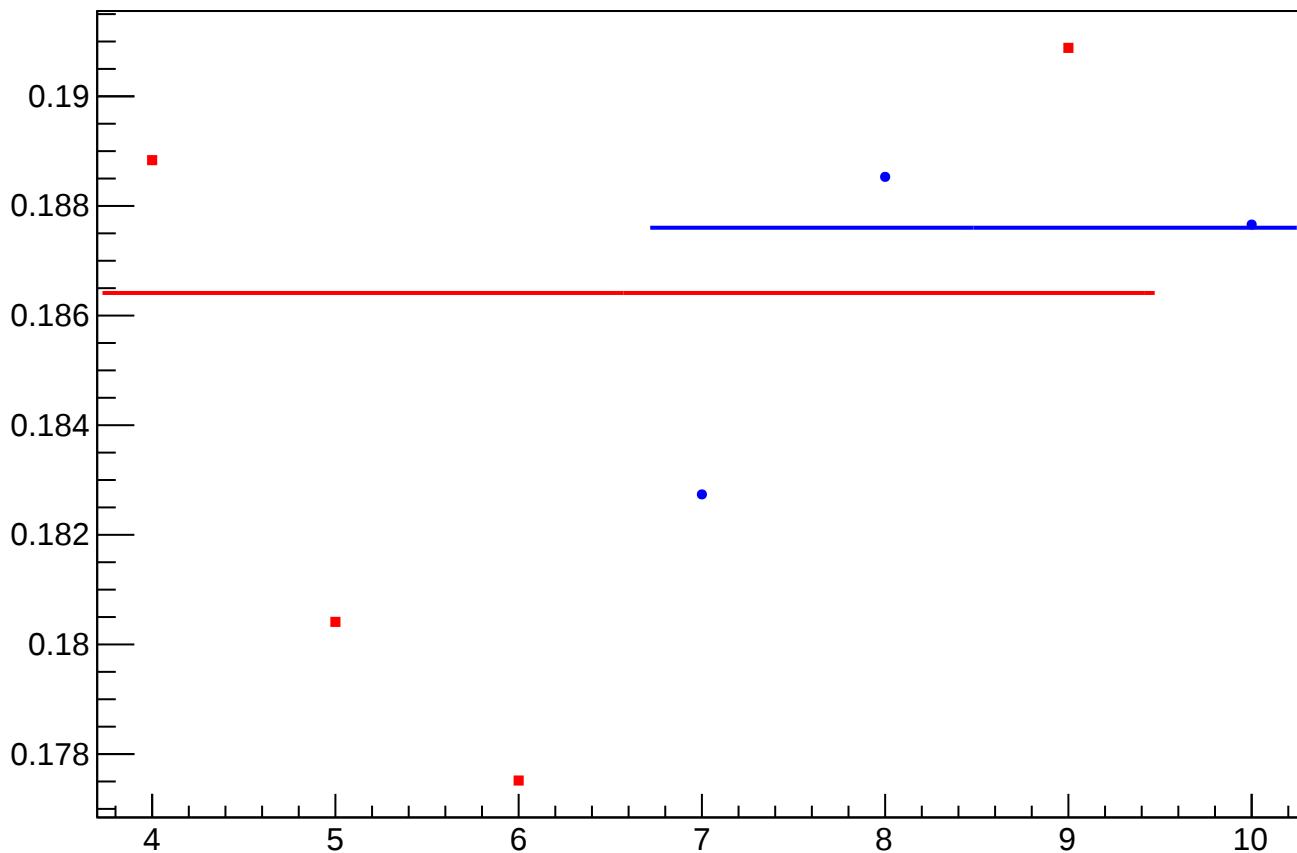
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 2076.5/3

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

0.000+/-0.000  $\chi^2/\text{NDF}$ : 19151.6/2

0.000+/-0.000  $\chi^2/\text{NDF}$ : 2076.5/3

yield\_cav4cX\_mean vs slug



Right In: 0.188+/-0.000  $\chi^2/\text{NDF}$ : 606019.6/2

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

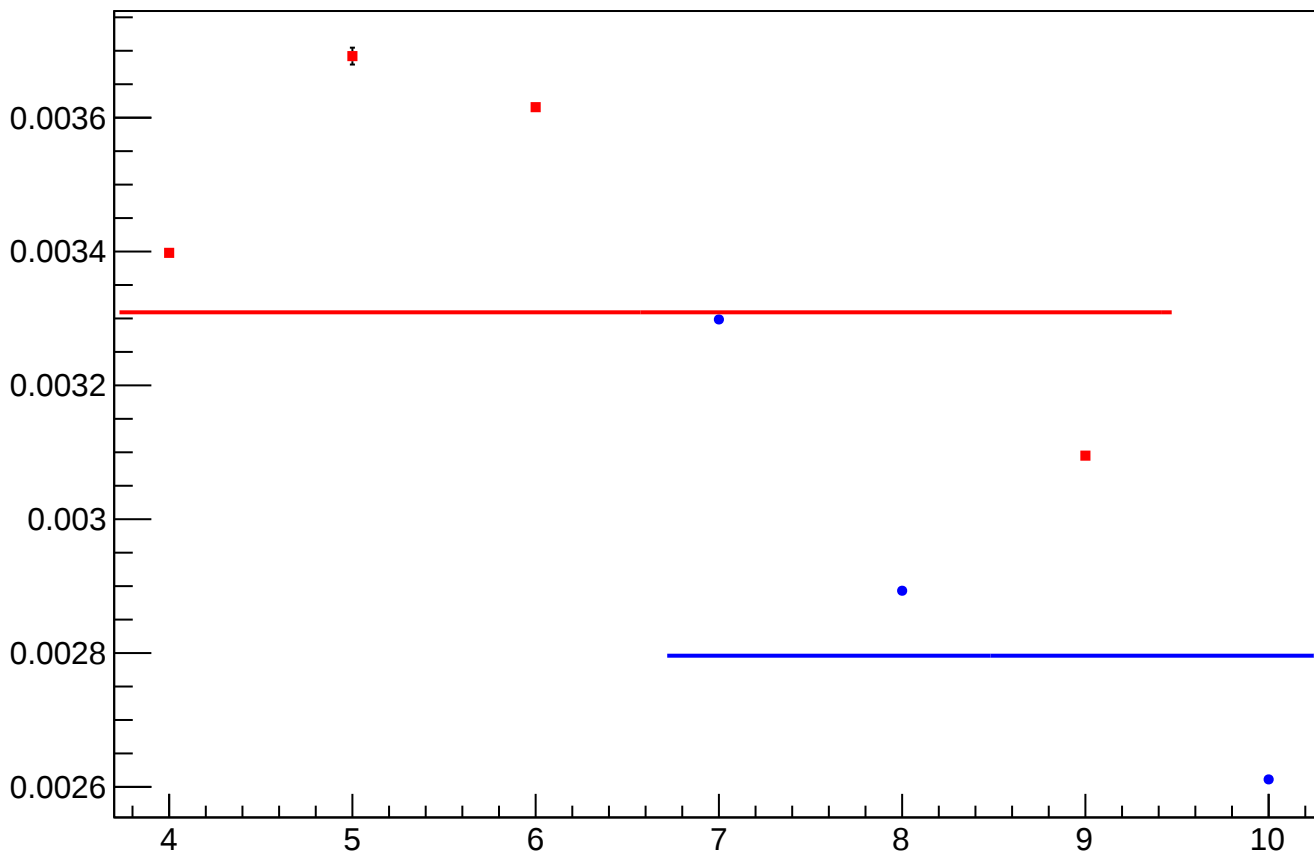
Right Out: 0.186+/-0.000  $\chi^2/\text{NDF}$ : 5144916.7/3

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

0.188+/-0.000  $\chi^2/\text{NDF}$ : 606019.6/2

0.186+/-0.000  $\chi^2/\text{NDF}$ : 5144916.7/3

# yield\_cav4cX\_rms vs slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 20831.1/2

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

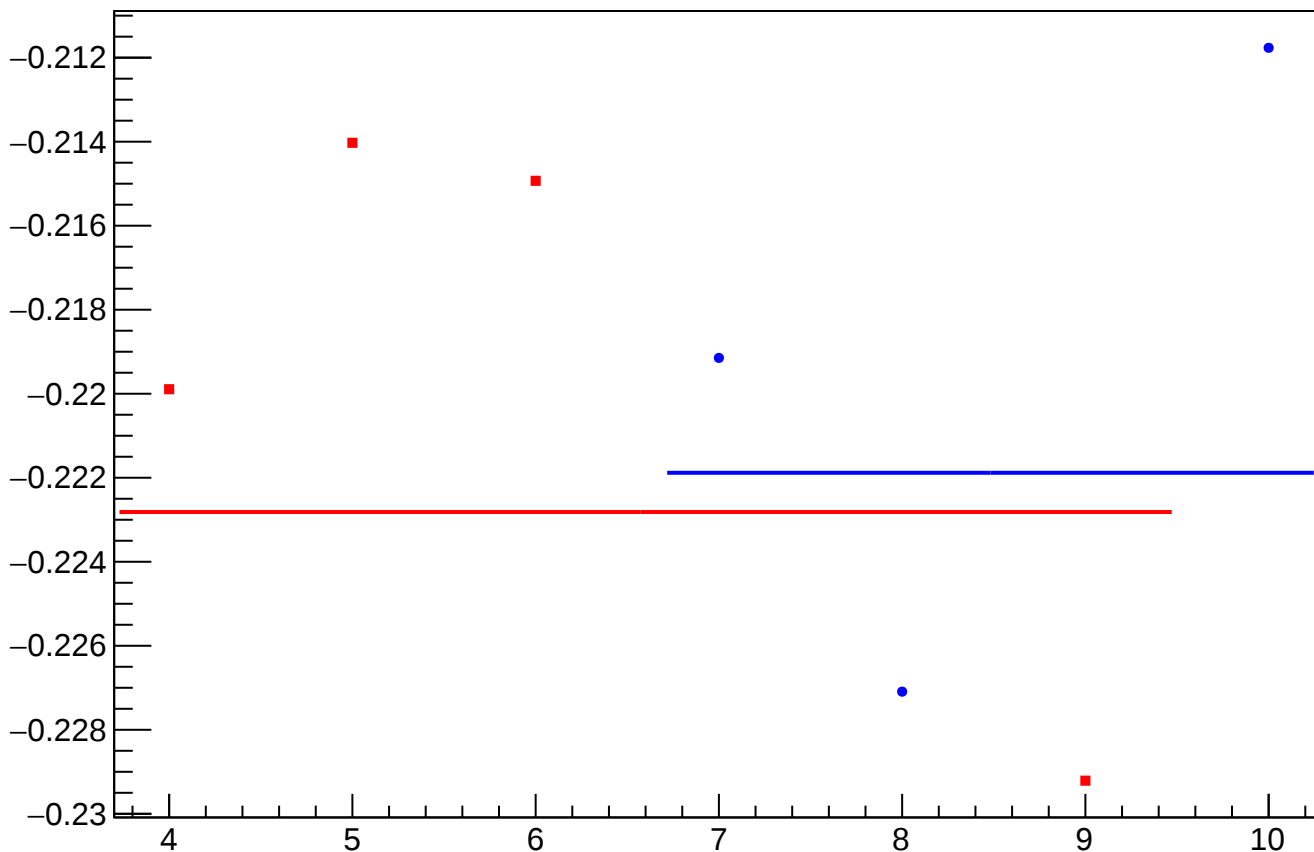
Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 16292.8/3

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

0.003+/-0.000  $\chi^2/\text{NDF}$ : 20831.1/2

0.003+/-0.000  $\chi^2/\text{NDF}$ : 16292.8/3

# yield\_cav4cY\_mean vs slug



Right In: -0.222+/-0.000  $\chi^2/\text{NDF}$ : 13981910.9/2

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

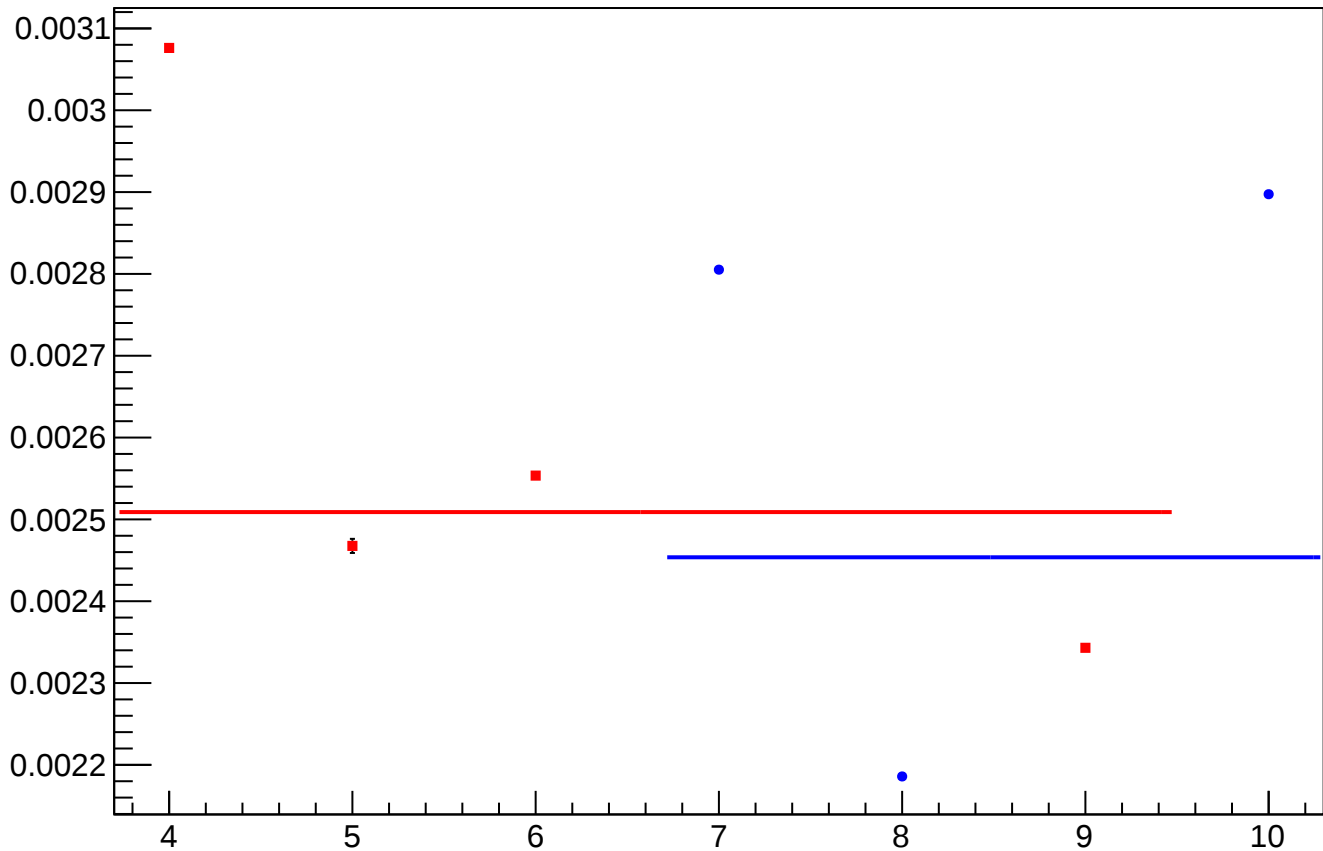
Right Out: -0.223+/-0.000  $\chi^2/\text{NDF}$ : 11346235.3/3

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

-0.222+/-0.000  $\chi^2/\text{NDF}$ : 13981910.9/2

-0.223+/-0.000  $\chi^2/\text{NDF}$ : 11346235.3/3

# yield\_cav4cY\_rms vs slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 67713.7/2

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

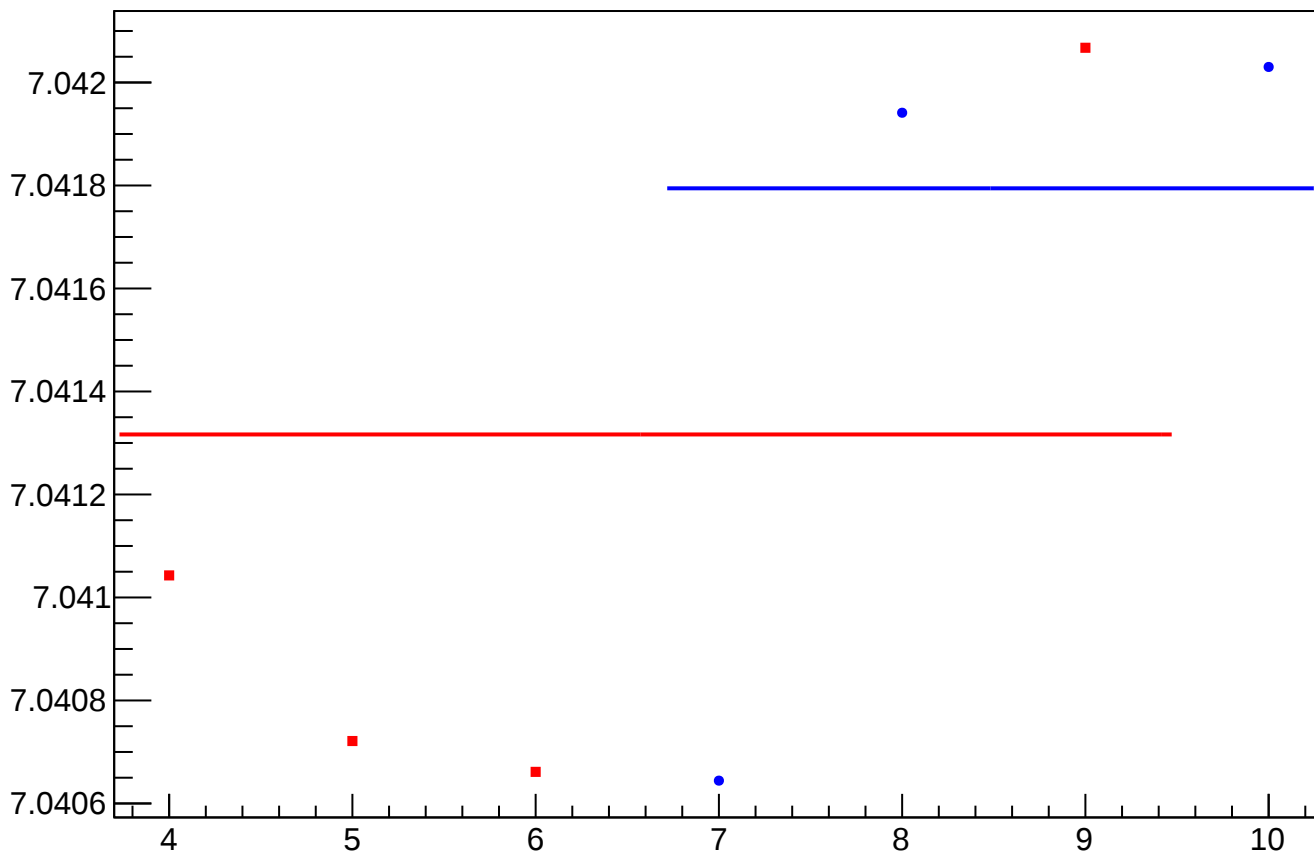
Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 27652.3/3

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

0.002+/-0.000  $\chi^2/\text{NDF}$ : 67713.7/2

0.003+/-0.000  $\chi^2/\text{NDF}$ : 27652.3/3

# yield\_cav4dX\_mean vs slug



Right In: 7.042+/-0.000  $\chi^2/\text{NDF}$ : 16367463.1/2

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

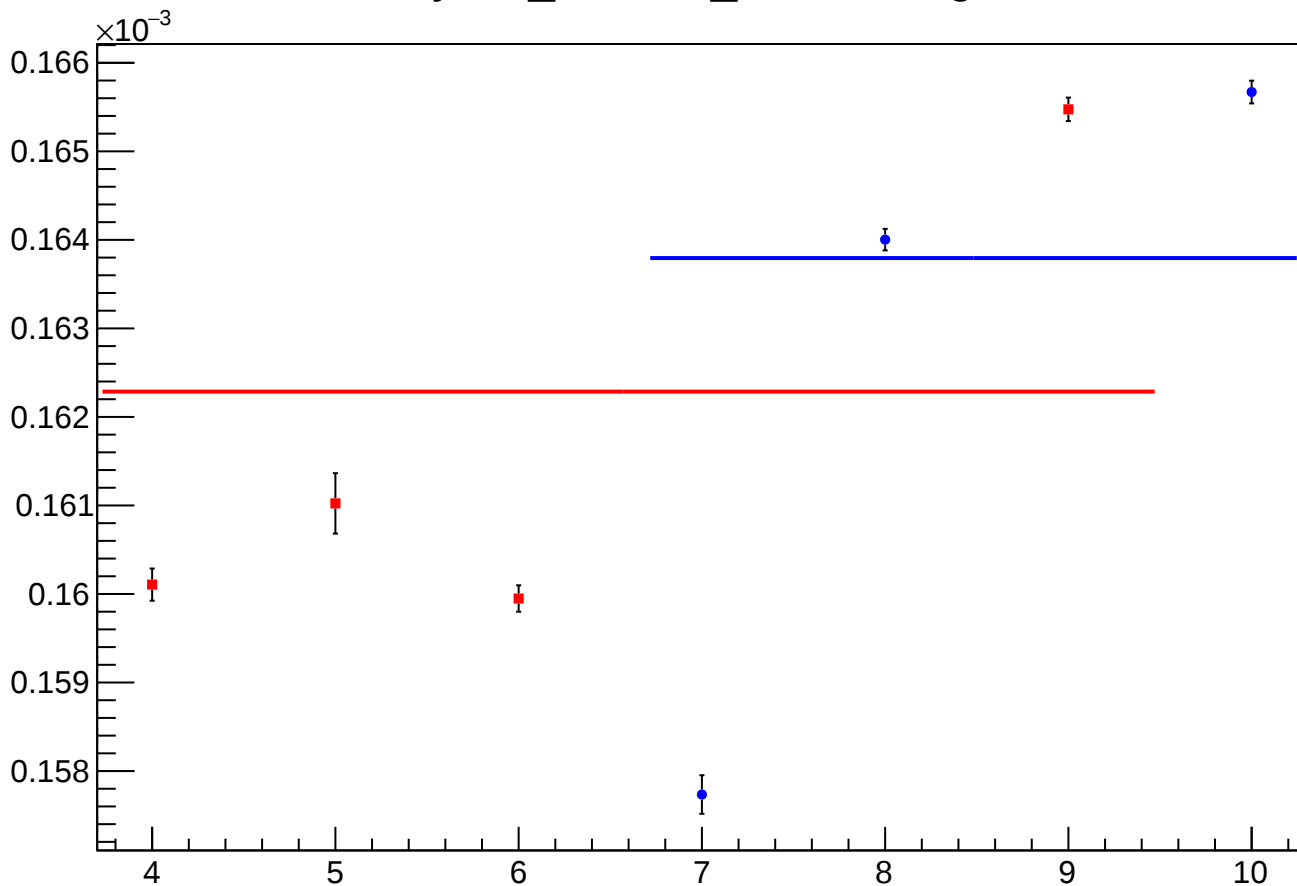
Right Out: 7.041+/-0.000  $\chi^2/\text{NDF}$ : 28363516.3/3

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

7.042+/-0.000  $\chi^2/\text{NDF}$ : 16367463.1/2

7.041+/-0.000  $\chi^2/\text{NDF}$ : 28363516.3/3

# yield\_cav4dX\_rms vs slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 990.7/2

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

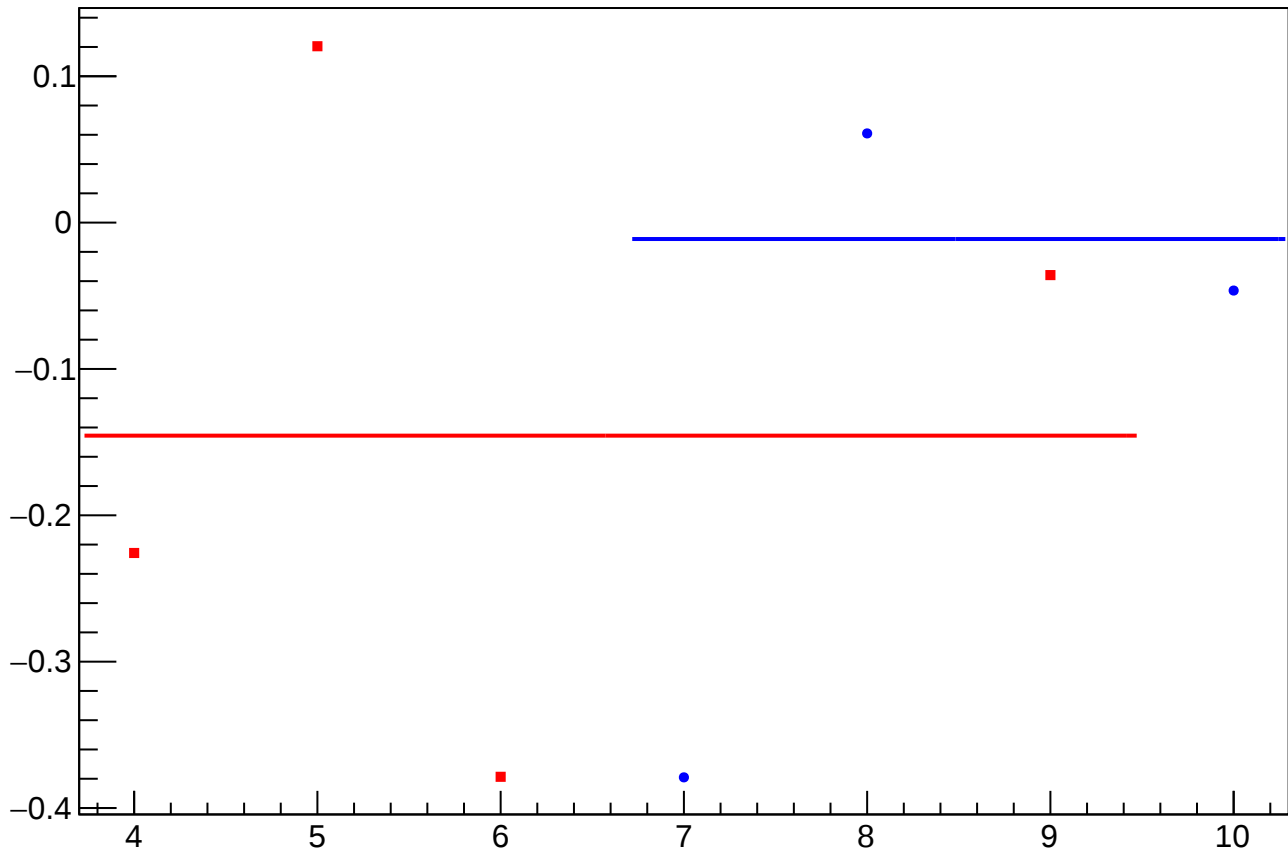
Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 982.4/3

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

0.000+/-0.000  $\chi^2/\text{NDF}$ : 990.7/2

0.000+/-0.000  $\chi^2/\text{NDF}$ : 982.4/3

# yield\_cav4dY\_mean vs slug



Right In: -0.011+/-0.000  $\chi^2/\text{NDF}$ : 2058350.4/2

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

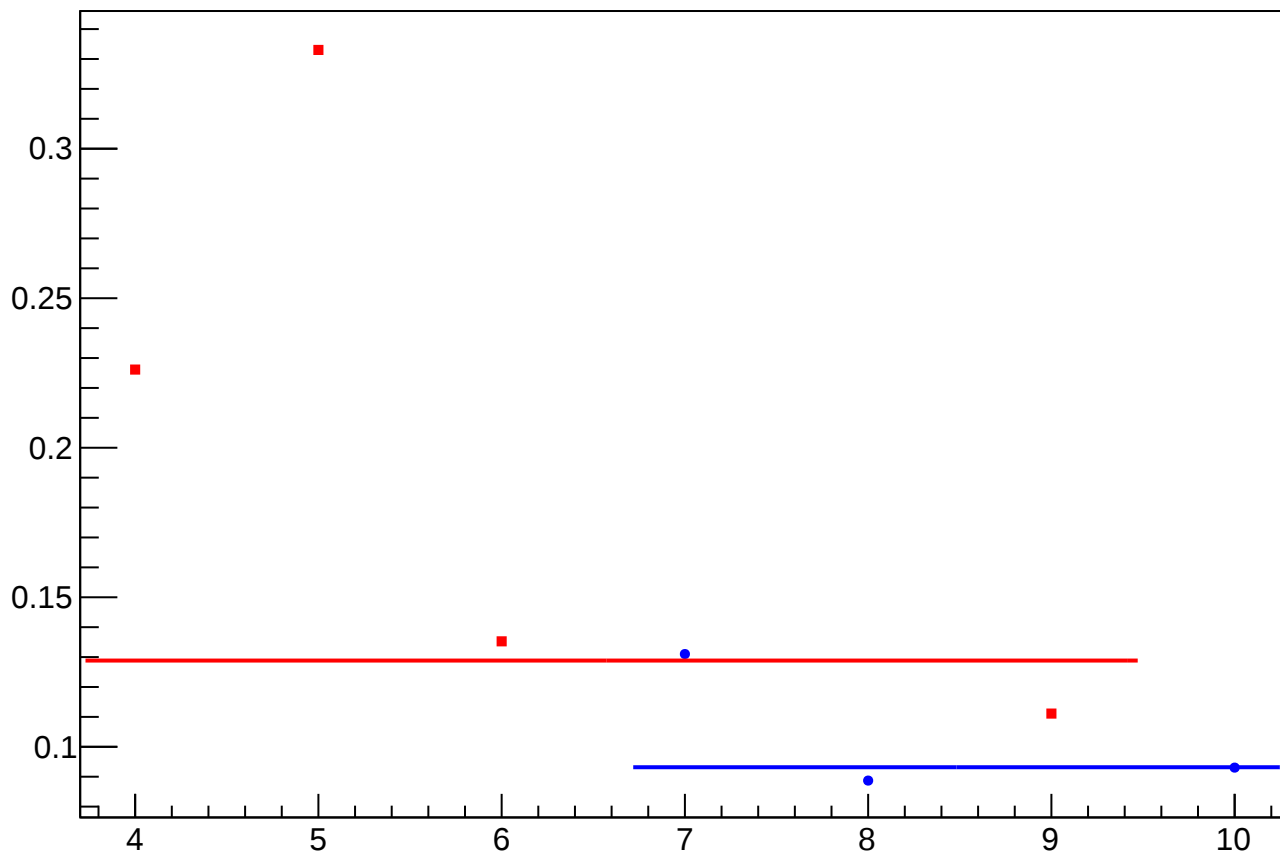
Right Out: -0.146+/-0.000  $\chi^2/\text{NDF}$ : 1903222.9/3

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

-0.011+/-0.000  $\chi^2/\text{NDF}$ : 2058350.4/2

-0.146+/-0.000  $\chi^2/\text{NDF}$ : 1903222.9/3

# yield\_cav4dY\_rms vs slug



Right In: 0.093+/-0.000  $\chi^2/\text{NDF}$ : 35247.9/2

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

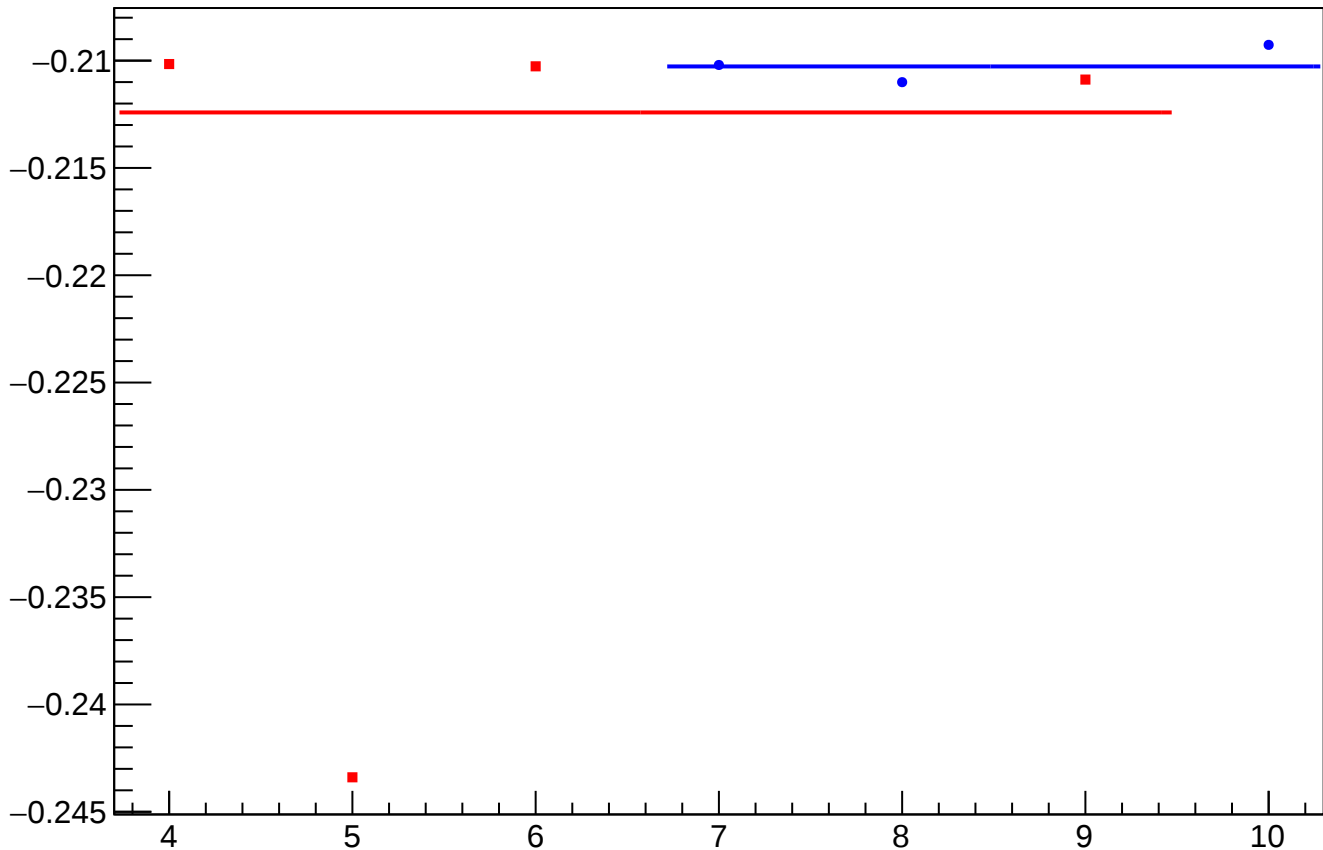
Right Out: 0.129+/-0.000  $\chi^2/\text{NDF}$ : 213449.9/3

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

0.093+/-0.000  $\chi^2/\text{NDF}$ : 35247.9/2

0.129+/-0.000  $\chi^2/\text{NDF}$ : 213449.9/3

# yield\_bpm4aX\_mean vs slug



Right In: -0.210+/-0.000  $\chi^2/\text{NDF}$ : 23422.4/2

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

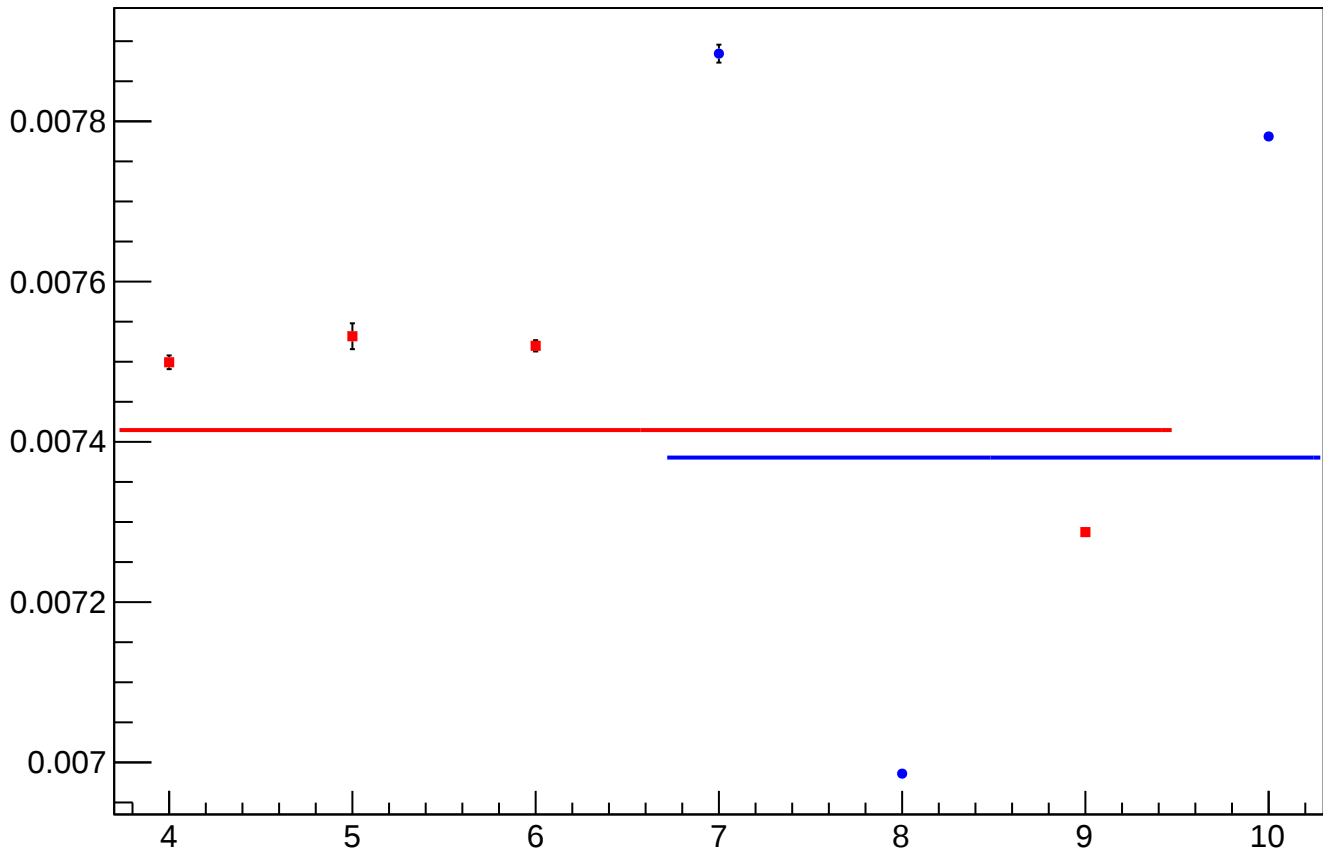
-0.210+/-0.000  $\chi^2/\text{NDF}$ : 23422.4/2

Right Out: -0.212+/-0.000  $\chi^2/\text{NDF}$ : 1960433.2/3

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

-0.212+/-0.000  $\chi^2/\text{NDF}$ : 1960433.2/3

# yield\_bpm4aX\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 12081.4/2

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

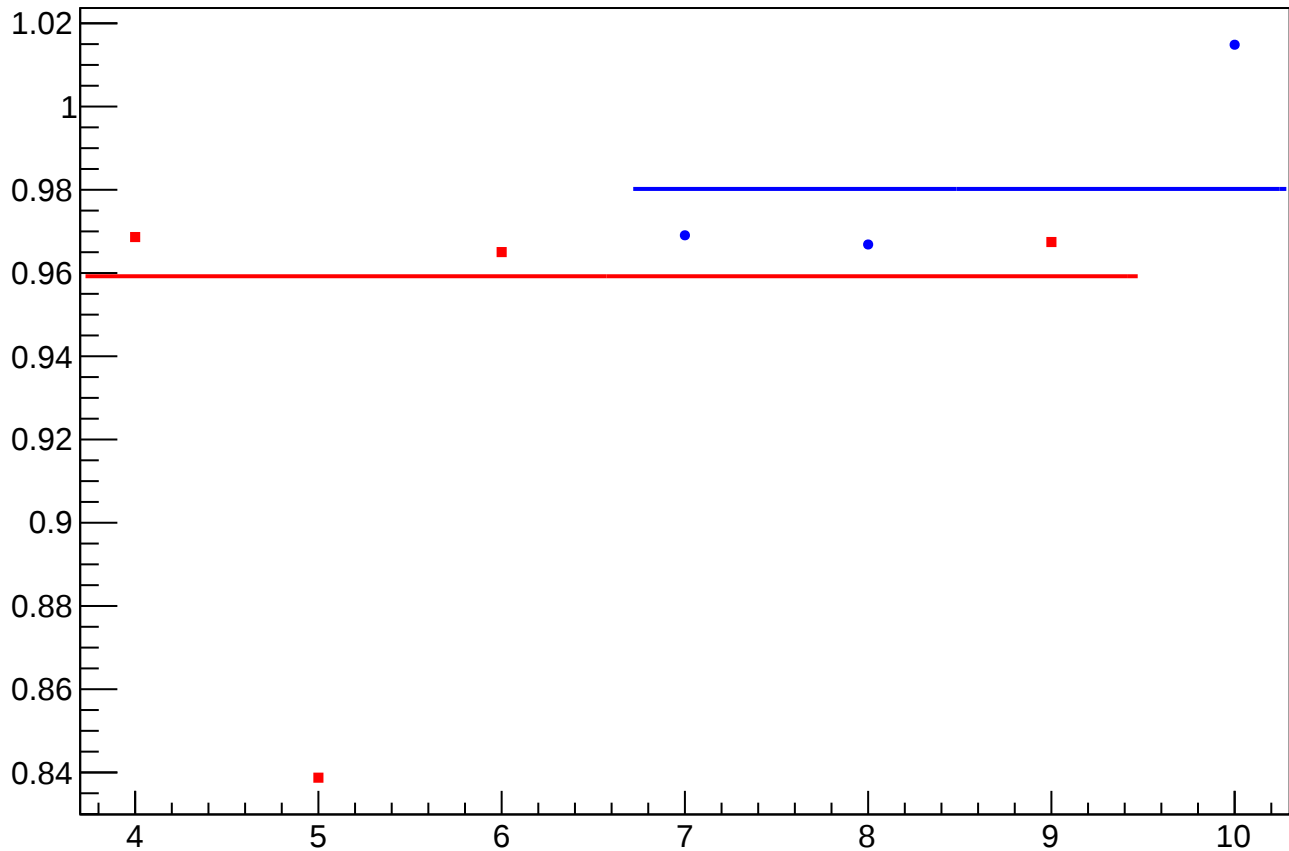
Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 848.6/3

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

0.007+/-0.000  $\chi^2/\text{NDF}$ : 12081.4/2

0.007+/-0.000  $\chi^2/\text{NDF}$ : 848.6/3

yield\_bpm4aY\_mean vs slug



Right In: 0.980+/-0.000  $\chi^2/\text{NDF}$ : 12125599.5/2

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

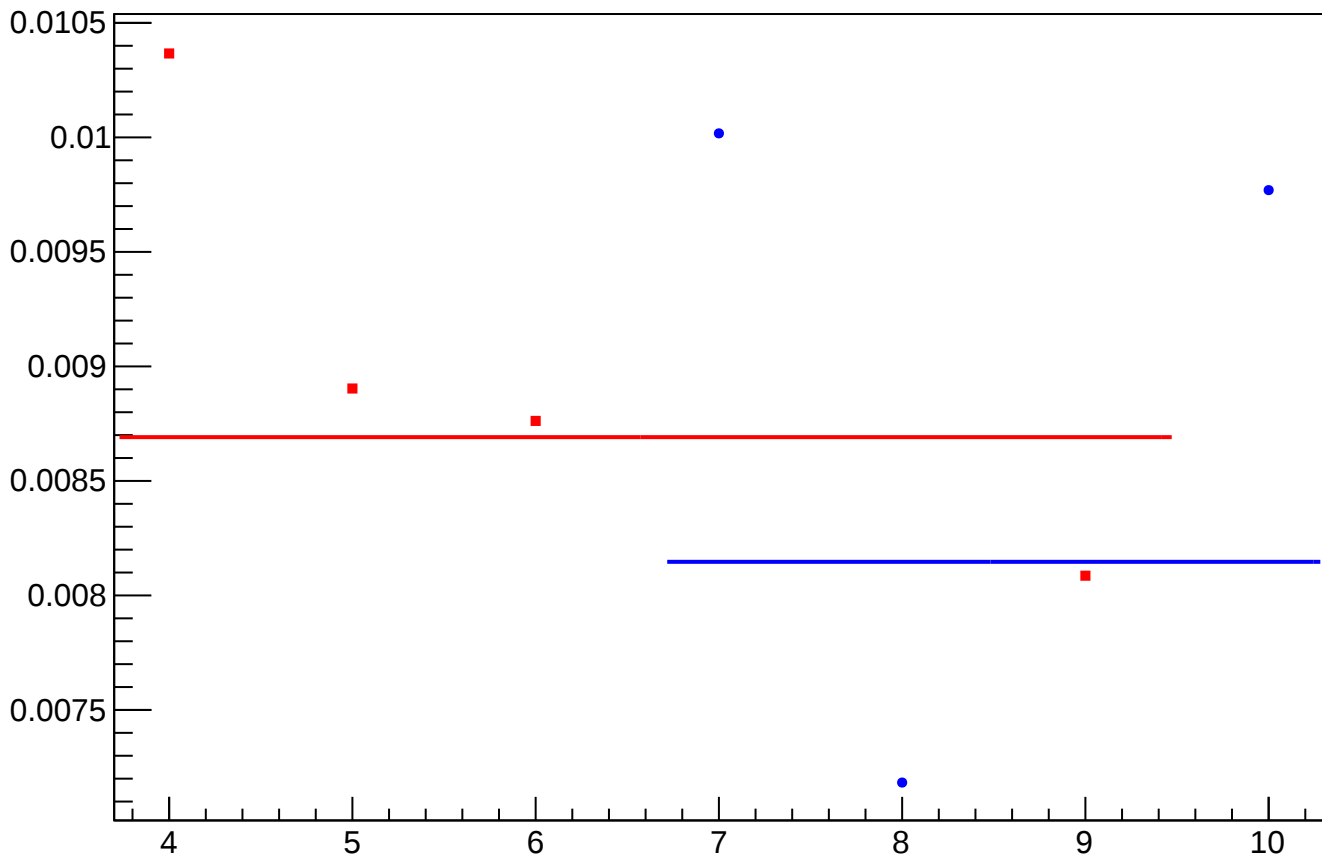
Right Out: 0.959+/-0.000  $\chi^2/\text{NDF}$ : 20676956.9/3

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

0.980+/-0.000  $\chi^2/\text{NDF}$ : 12125599.5/2

0.959+/-0.000  $\chi^2/\text{NDF}$ : 20676956.9/3

# yield\_bpm4aY\_rms vs slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 87054.3/2

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

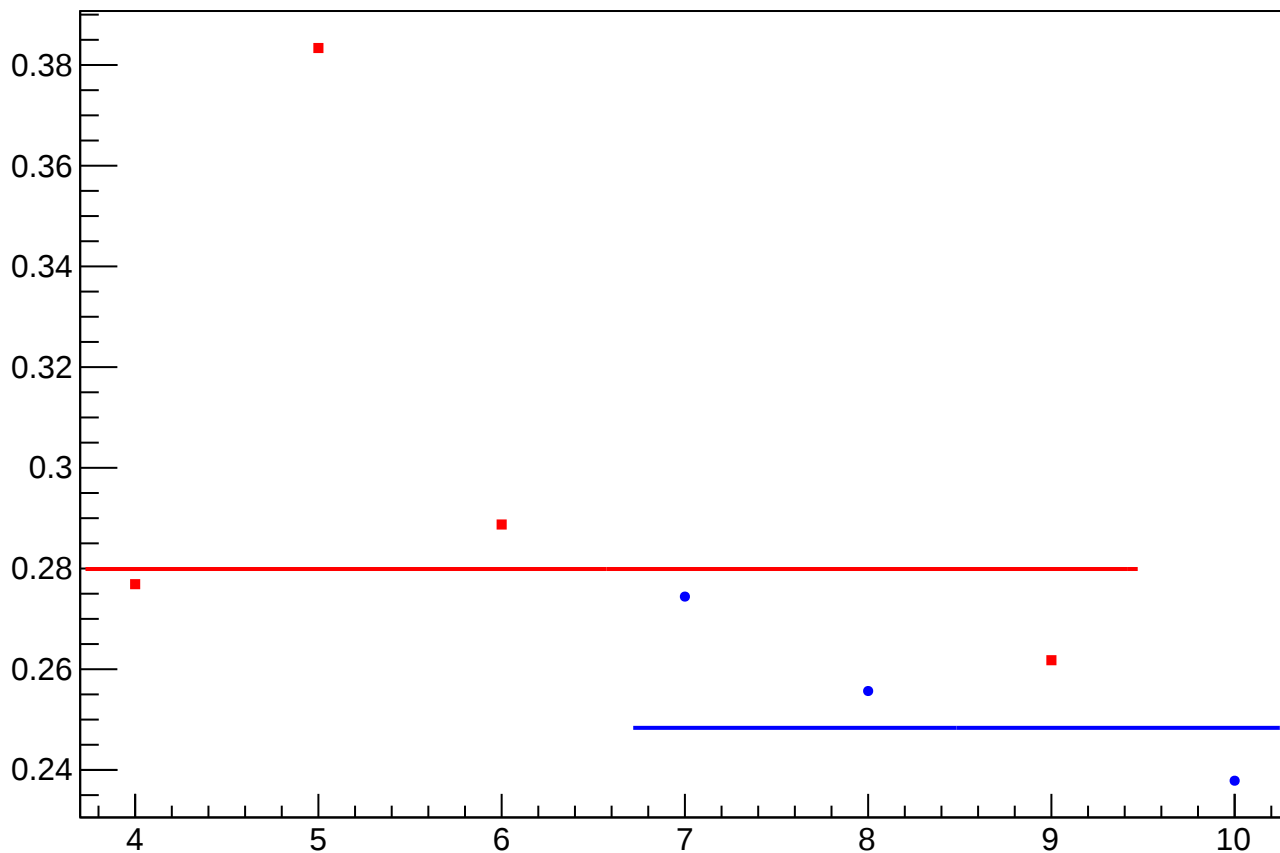
Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 26808.4/3

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

0.008+/-0.000  $\chi^2/\text{NDF}$ : 87054.3/2

0.009+/-0.000  $\chi^2/\text{NDF}$ : 26808.4/3

# yield\_bpm4eX\_mean vs slug



Right In: 0.248+/-0.000  $\chi^2/\text{NDF}$ : 884941.4/2

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

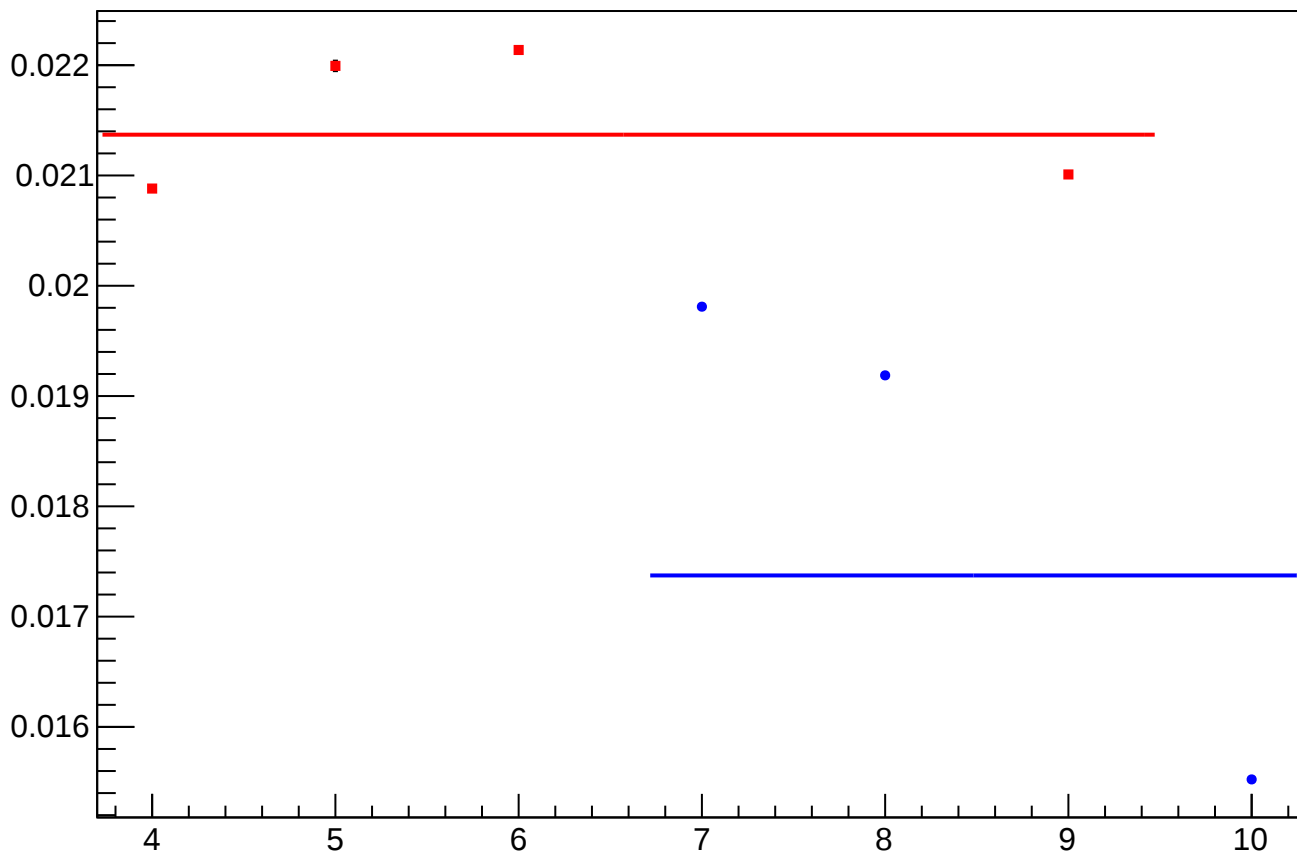
Right Out: 0.280+/-0.000  $\chi^2/\text{NDF}$ : 2998062.0/3

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

0.248+/-0.000  $\chi^2/\text{NDF}$ : 884941.4/2

0.280+/-0.000  $\chi^2/\text{NDF}$ : 2998062.0/3

# yield\_bpm4eX\_rms vs slug



Right In: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 44864.8/2

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

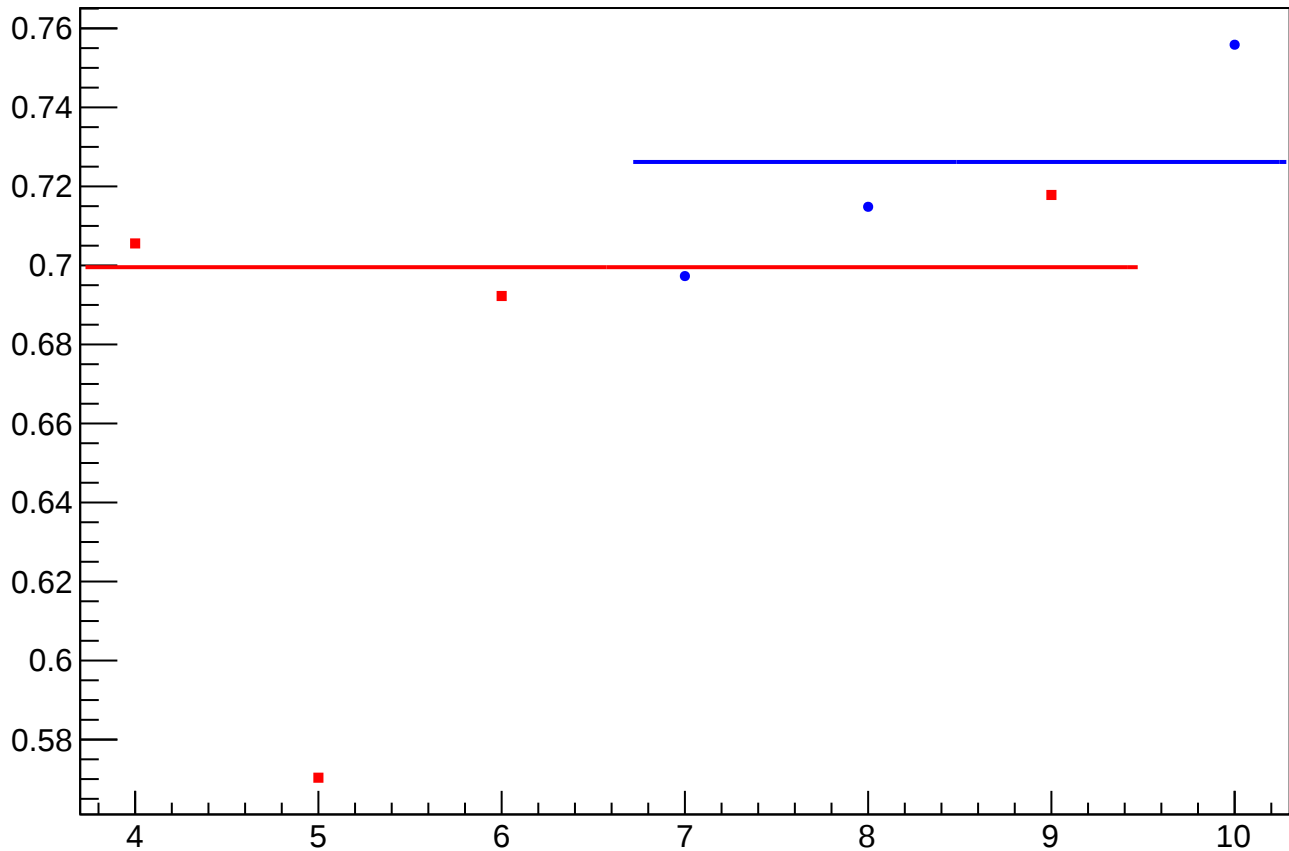
Right Out: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 2343.0/3

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

0.017+/-0.000  $\chi^2/\text{NDF}$ : 44864.8/2

0.021+/-0.000  $\chi^2/\text{NDF}$ : 2343.0/3

# yield\_bpm4eY\_mean vs slug



Right In: 0.726+/-0.000  $\chi^2/\text{NDF}$ : 15686576.1/2

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

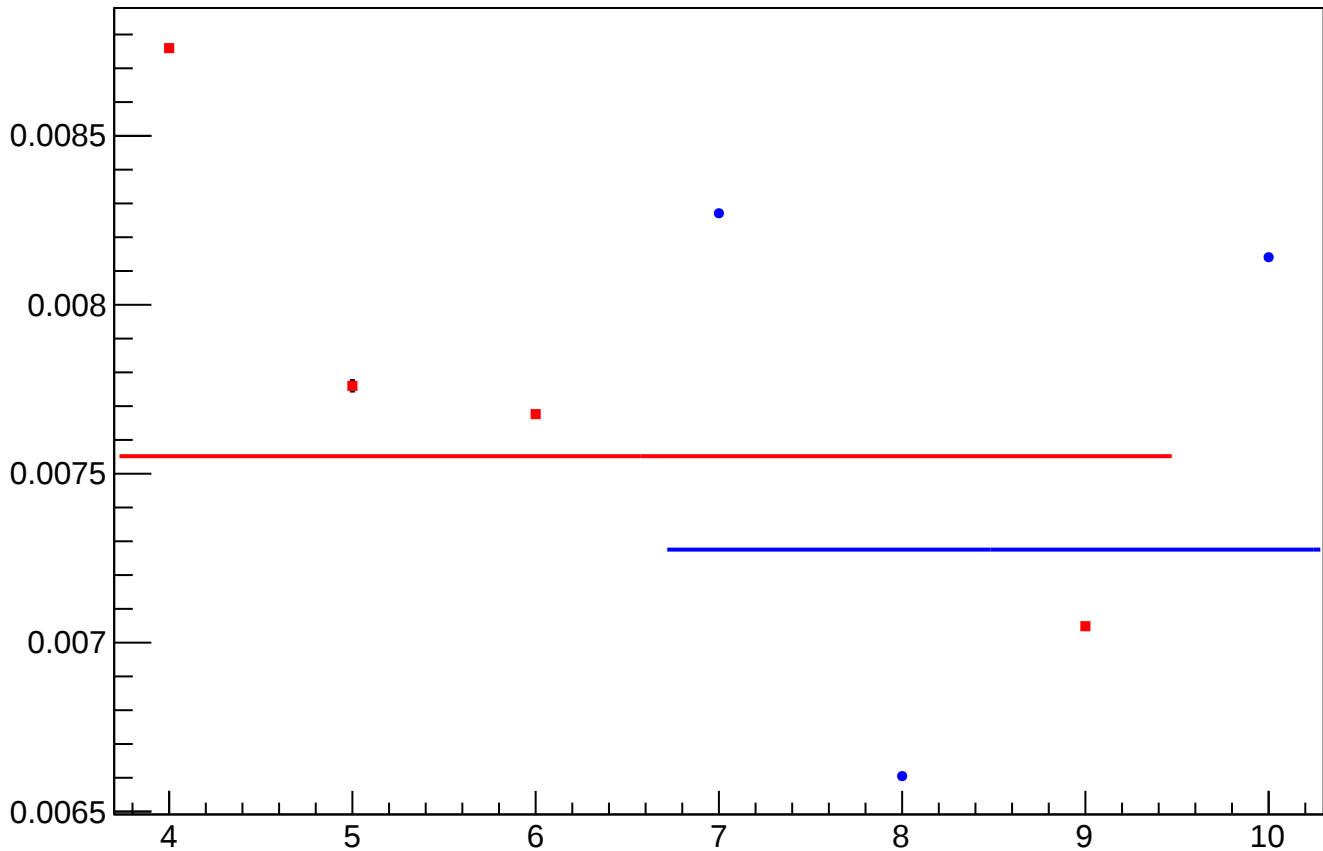
Right Out: 0.700+/-0.000  $\chi^2/\text{NDF}$ : 34819004.5/3

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

0.726+/-0.000  $\chi^2/\text{NDF}$ : 15686576.1/2

0.700+/-0.000  $\chi^2/\text{NDF}$ : 34819004.5/3

# yield\_bpm4eY\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 42496.3/2

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

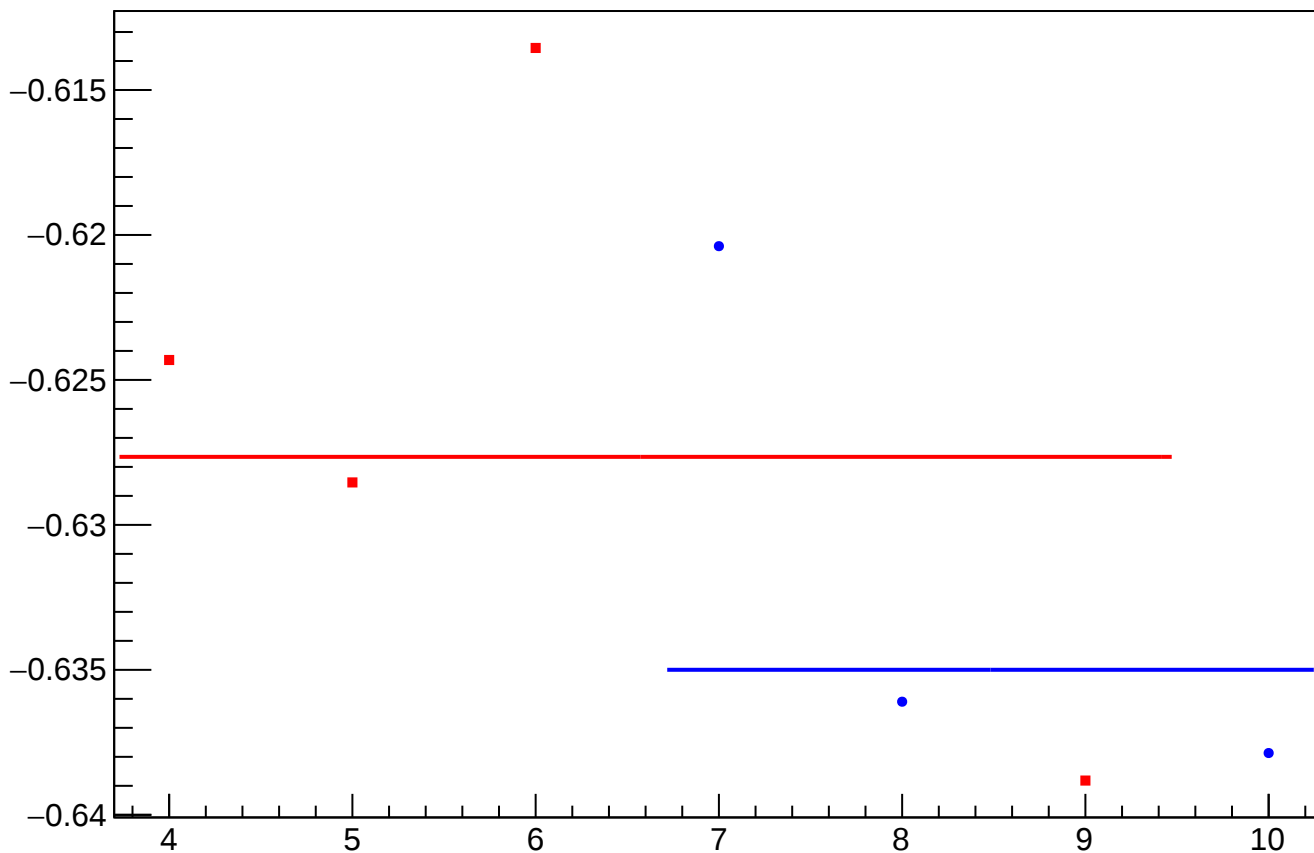
Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 21811.2/3

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

0.007+/-0.000  $\chi^2/\text{NDF}$ : 42496.3/2

0.008+/-0.000  $\chi^2/\text{NDF}$ : 21811.2/3

# yield\_bpm4acX\_mean vs slug



Right In: -0.635+/-0.000  $\chi^2/\text{NDF}$ : 979961.5/2

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

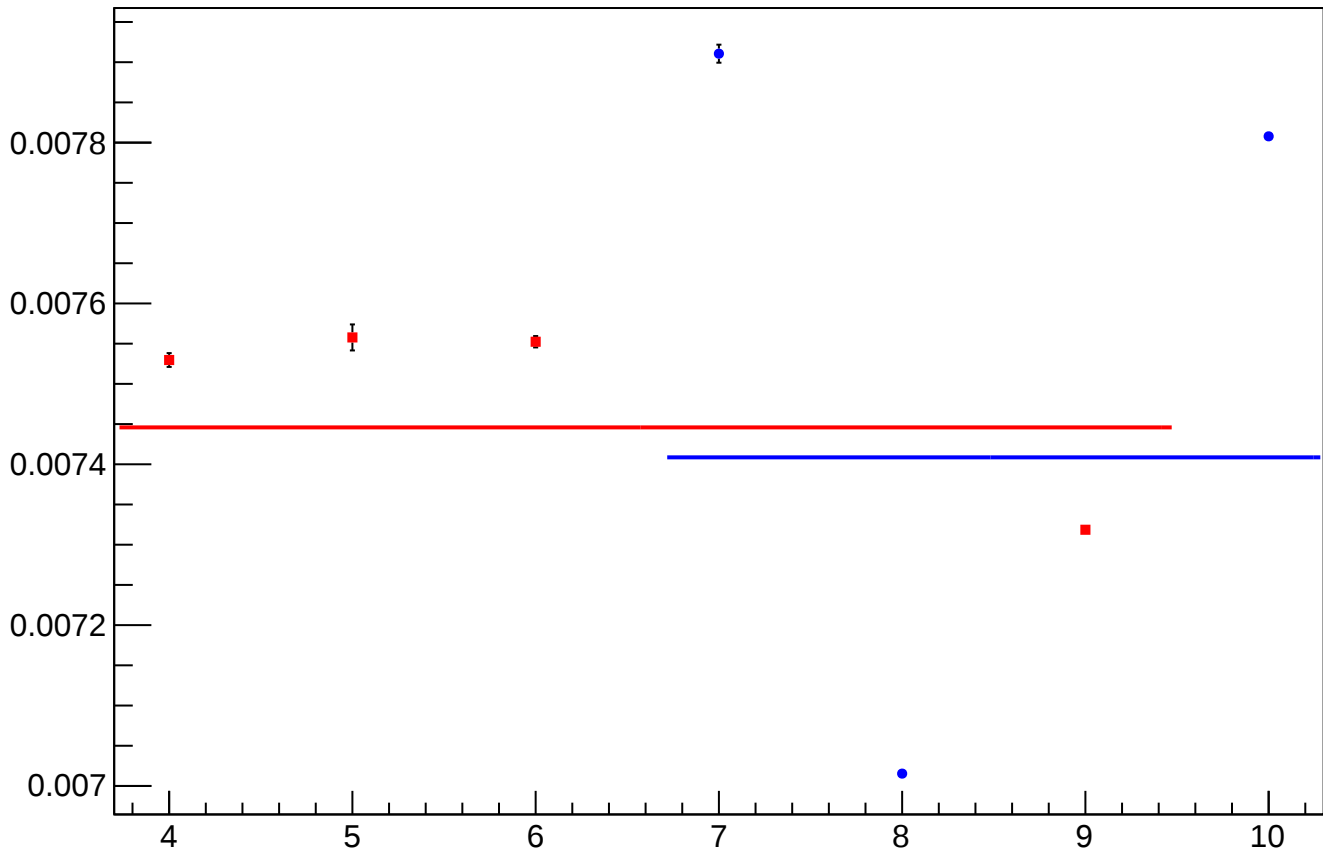
-0.635+/-0.000  $\chi^2/\text{NDF}$ : 979961.5/2

Right Out: -0.628+/-0.000  $\chi^2/\text{NDF}$ : 3877481.2/3

-0.628+/-0.000  $\chi^2/\text{NDF}$ : 3877481.2/3

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

# yield\_bpm4acX\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 11906.4/2

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

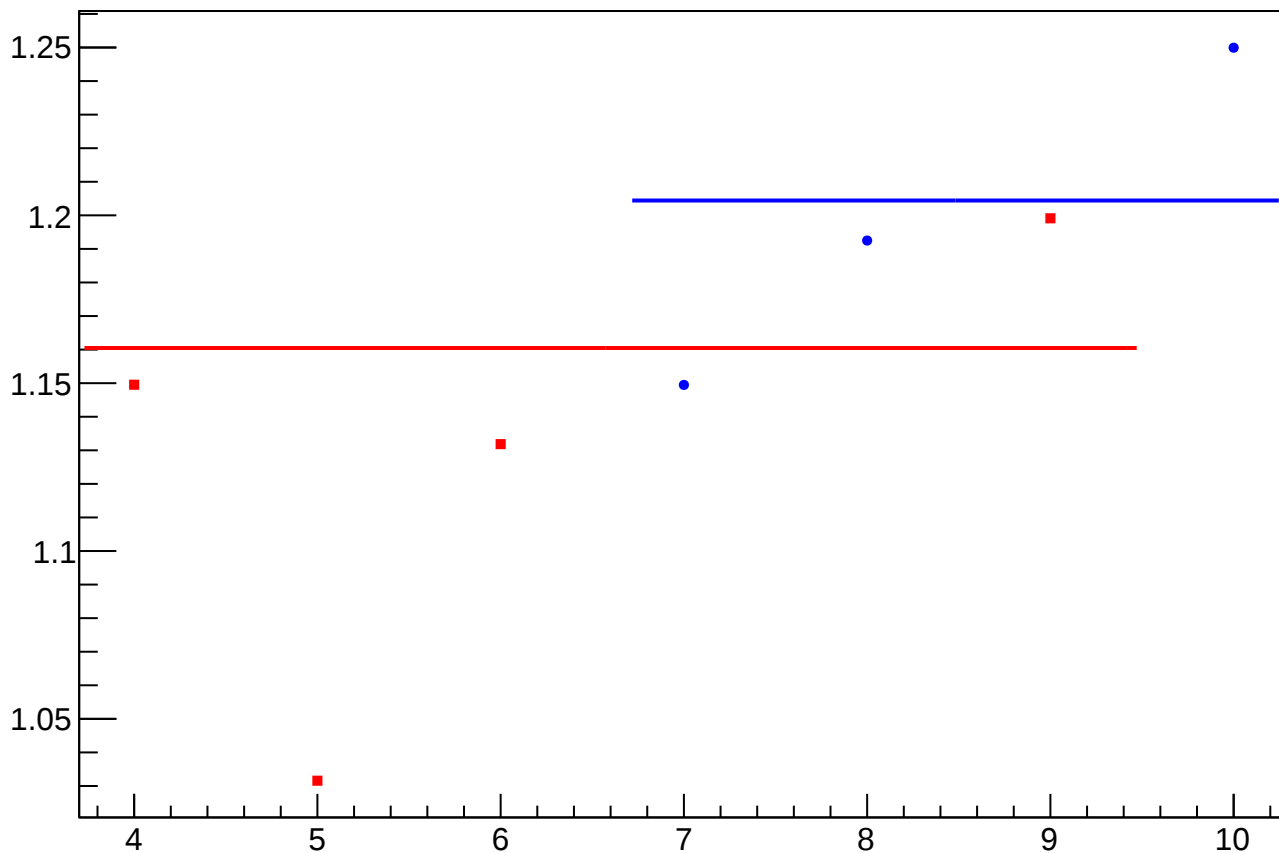
Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 840.6/3

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

0.007+/-0.000  $\chi^2/\text{NDF}$ : 11906.4/2

0.007+/-0.000  $\chi^2/\text{NDF}$ : 840.6/3

# yield\_bpm4acY\_mean vs slug



Right In: 1.204+/-0.000  $\chi^2/\text{NDF}$ : 23085707.2/2

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

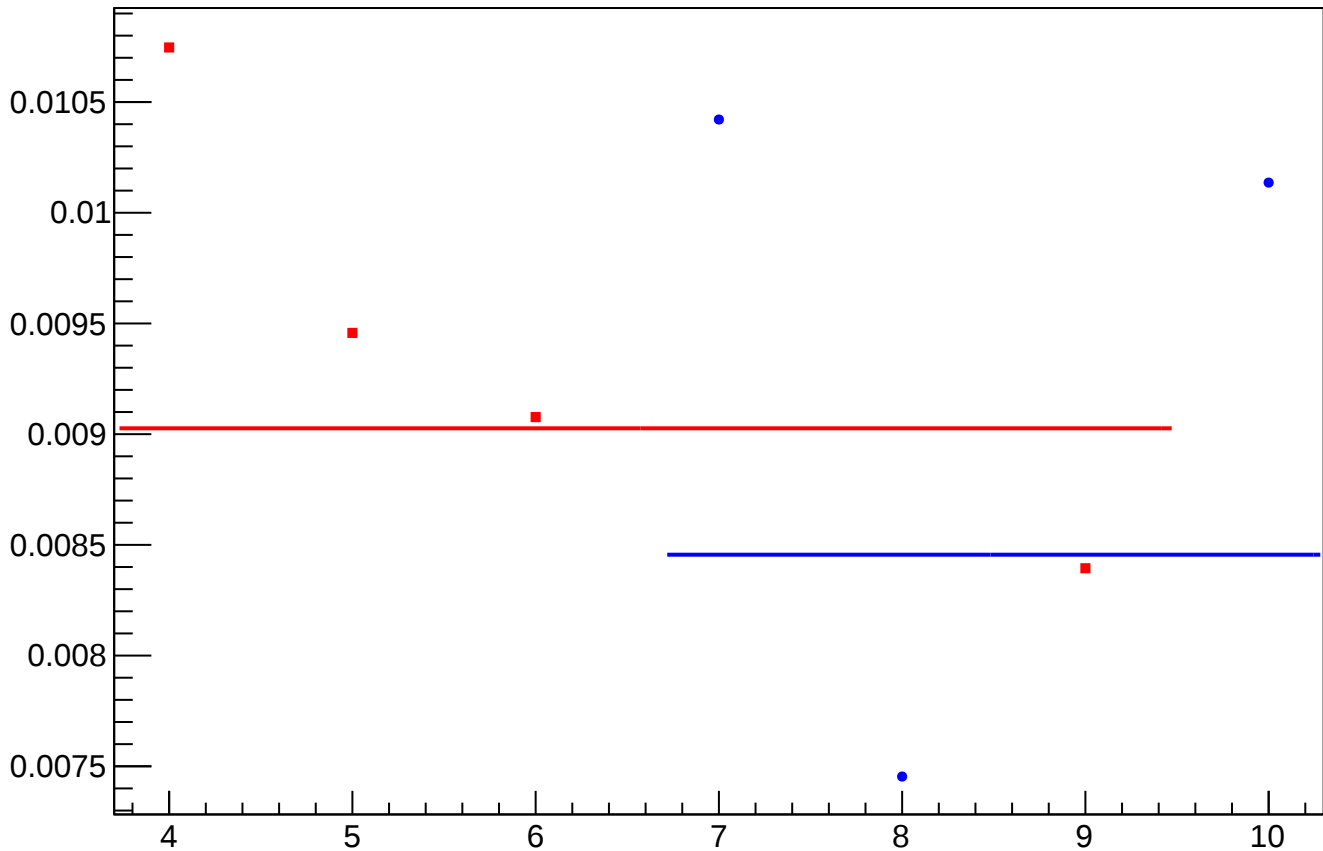
Right Out: 1.160+/-0.000  $\chi^2/\text{NDF}$ : 40306666.9/3

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

1.204+/-0.000  $\chi^2/\text{NDF}$ : 23085707.2/2

1.160+/-0.000  $\chi^2/\text{NDF}$ : 40306666.9/3

# yield\_bpm4acY\_rms vs slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 87421.5/2

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

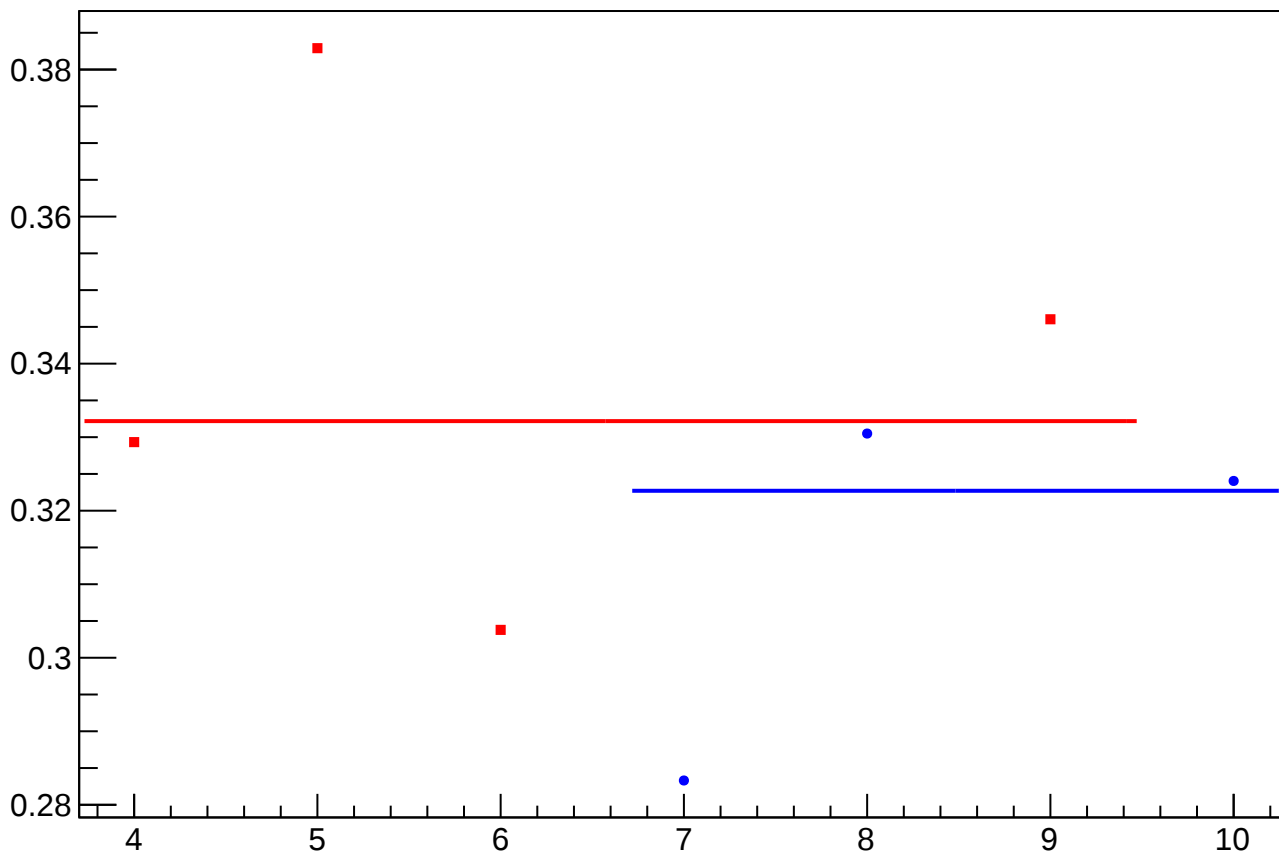
Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 26842.0/3

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

0.008+/-0.000  $\chi^2/\text{NDF}$ : 87421.5/2

0.009+/-0.000  $\chi^2/\text{NDF}$ : 26842.0/3

yield\_bpm4ecX\_mean vs slug



Right In: 0.323+/-0.000  $\chi^2/\text{NDF}$ : 1066718.8/2

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

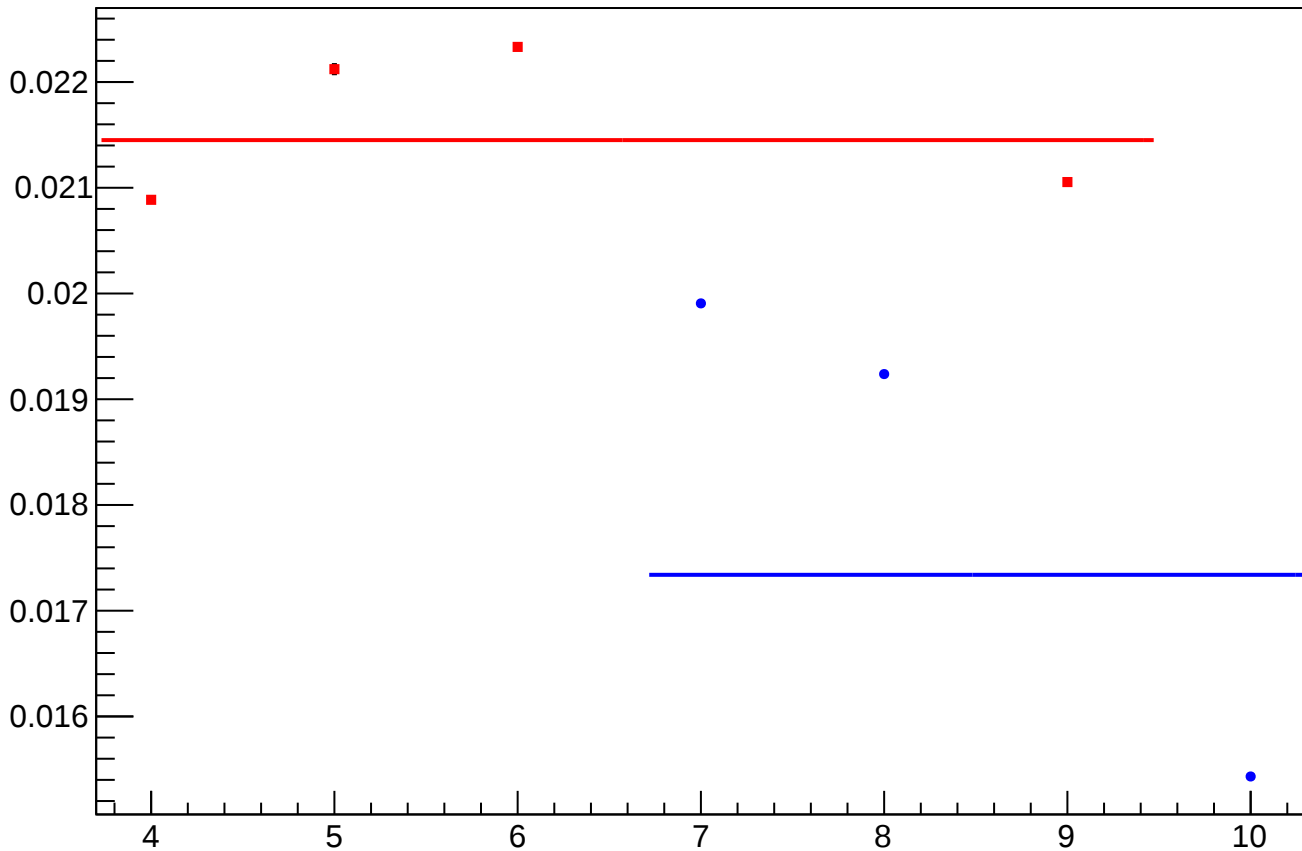
Right Out: 0.332+/-0.000  $\chi^2/\text{NDF}$ : 1784967.5/3

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

0.323+/-0.000  $\chi^2/\text{NDF}$ : 1066718.8/2

0.332+/-0.000  $\chi^2/\text{NDF}$ : 1784967.5/3

yield\_bpm4ecX\_rms vs slug



Right In: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 48598.3/2

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

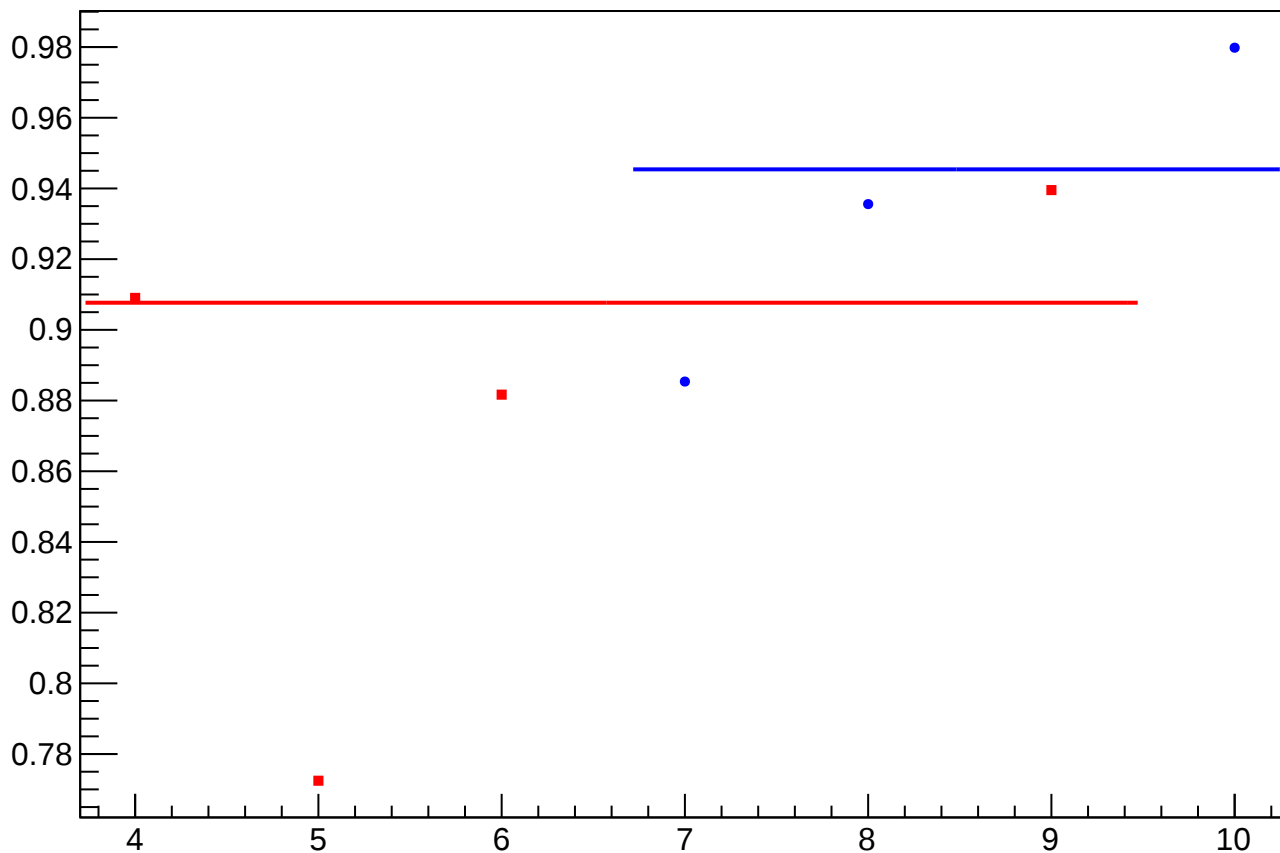
Right Out: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 2984.0/3

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

0.017+/-0.000  $\chi^2/\text{NDF}$ : 48598.3/2

0.021+/-0.000  $\chi^2/\text{NDF}$ : 2984.0/3

# yield\_bpm4ecY\_mean vs slug



Right In: 0.945+/-0.000  $\chi^2/\text{NDF}$ : 24934015.4/2

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

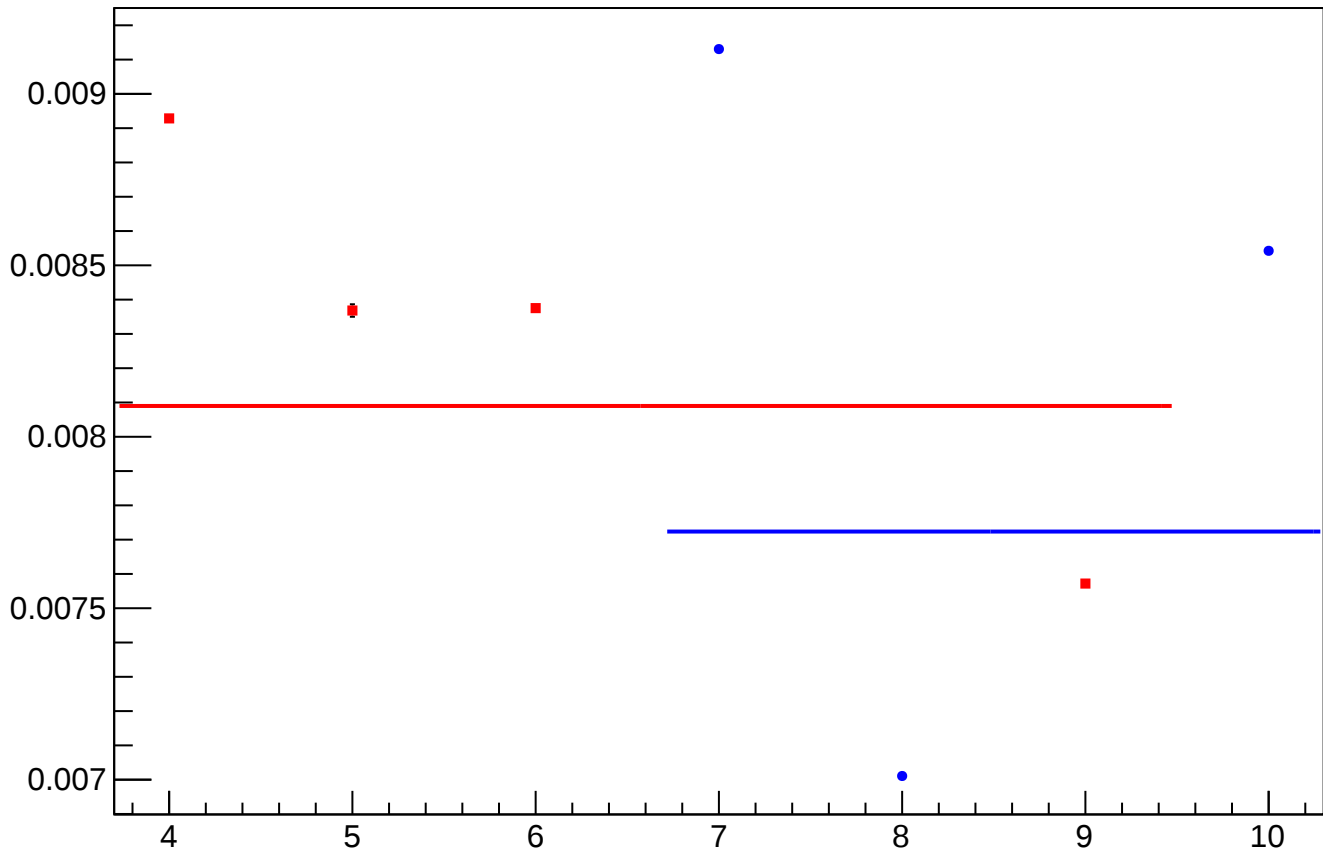
Right Out: 0.908+/-0.000  $\chi^2/\text{NDF}$ : 45739433.0/3

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

0.945+/-0.000  $\chi^2/\text{NDF}$ : 24934015.4/2

0.908+/-0.000  $\chi^2/\text{NDF}$ : 45739433.0/3

# yield\_bpm4ecY\_rms vs slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 44101.2/2

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

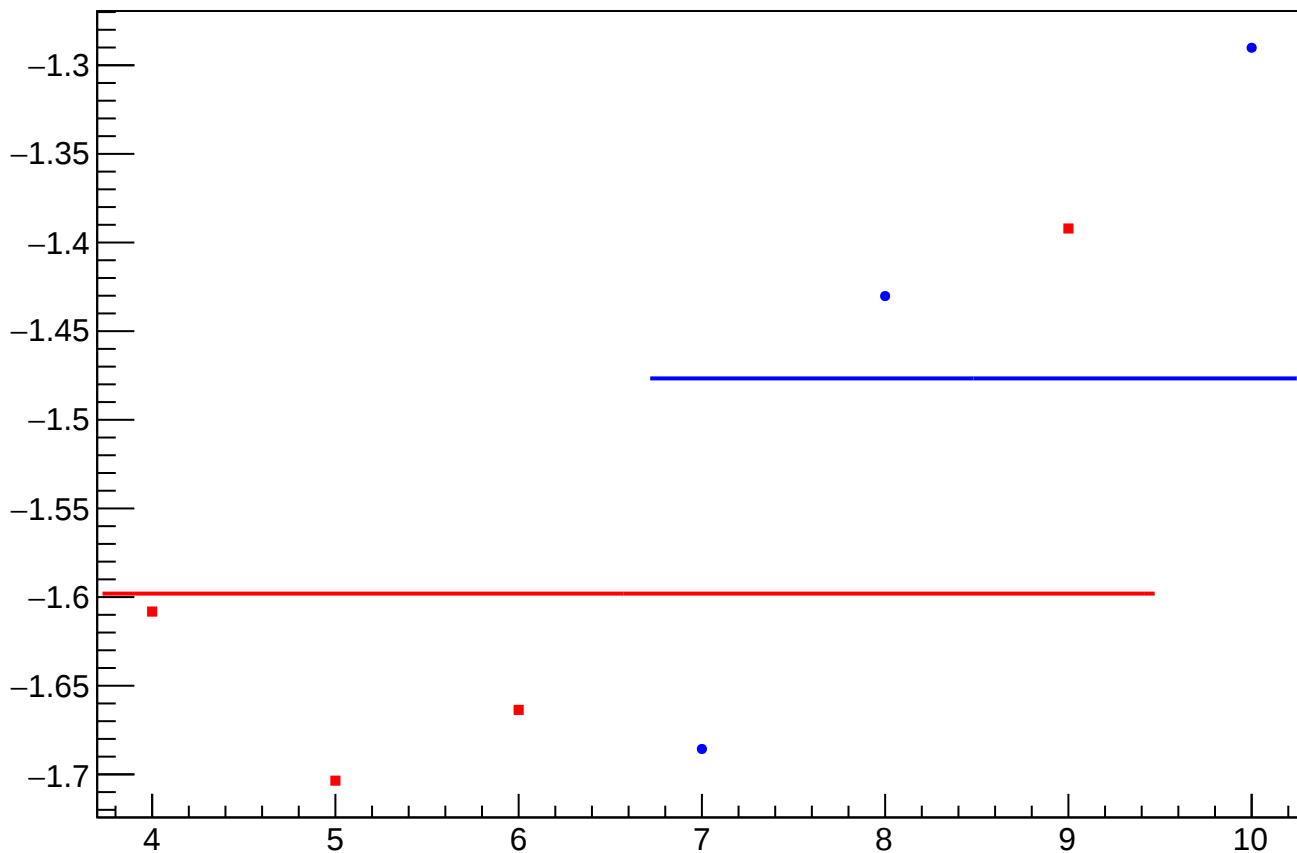
Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 14786.1/3

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

0.008+/-0.000  $\chi^2/\text{NDF}$ : 44101.2/2

0.008+/-0.000  $\chi^2/\text{NDF}$ : 14786.1/3

yield\_bpm1X\_mean vs slug



Right In: -1.477+/-0.000  $\chi^2/\text{NDF}$ : 32419507.9/2

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

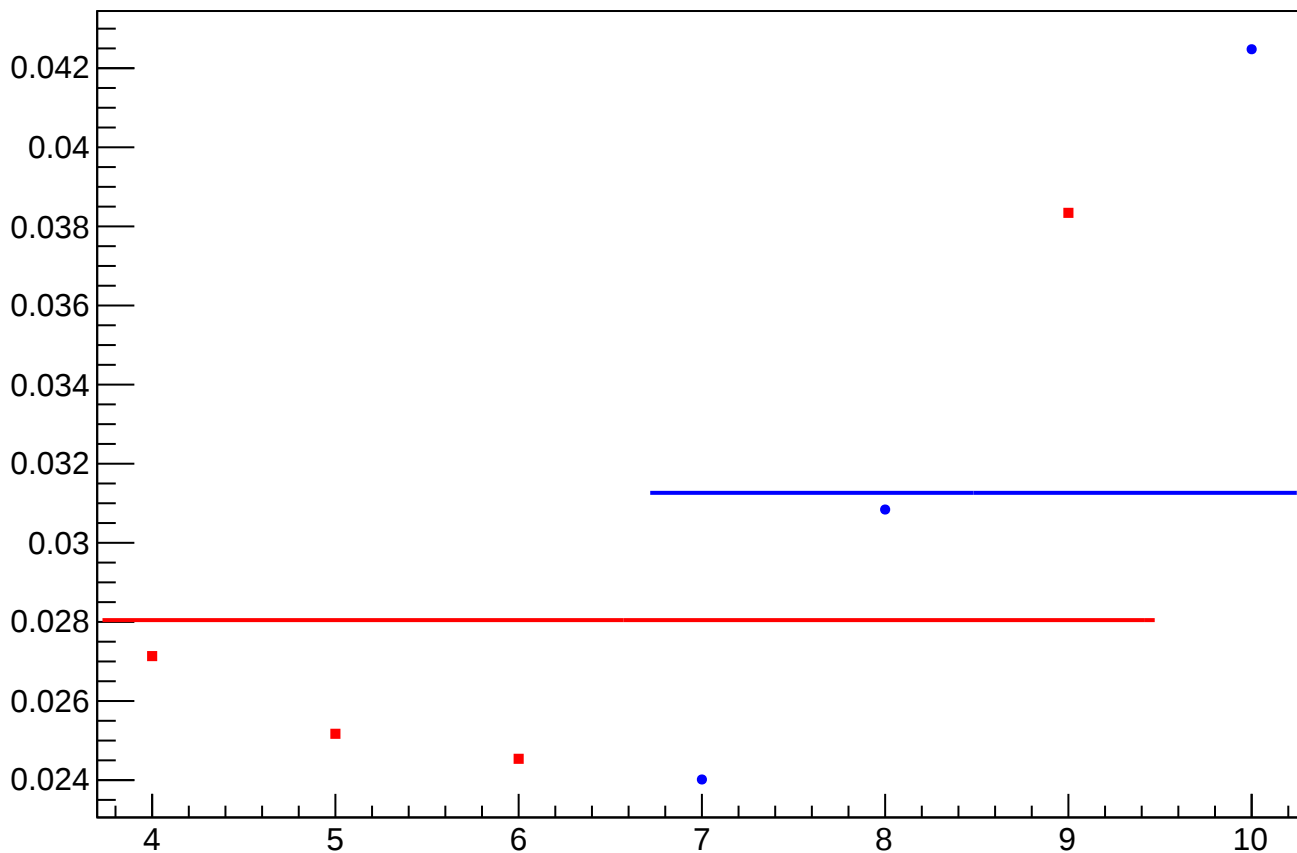
Right Out: -1.598+/-0.000  $\chi^2/\text{NDF}$ : 23074027.0/3

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

-1.477+/-0.000  $\chi^2/\text{NDF}$ : 32419507.9/2

-1.598+/-0.000  $\chi^2/\text{NDF}$ : 23074027.0/3

# yield\_bpm1X\_rms vs slug



Right In: 0.031+/-0.000  $\chi^2/\text{NDF}$ : 127990.4/2

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

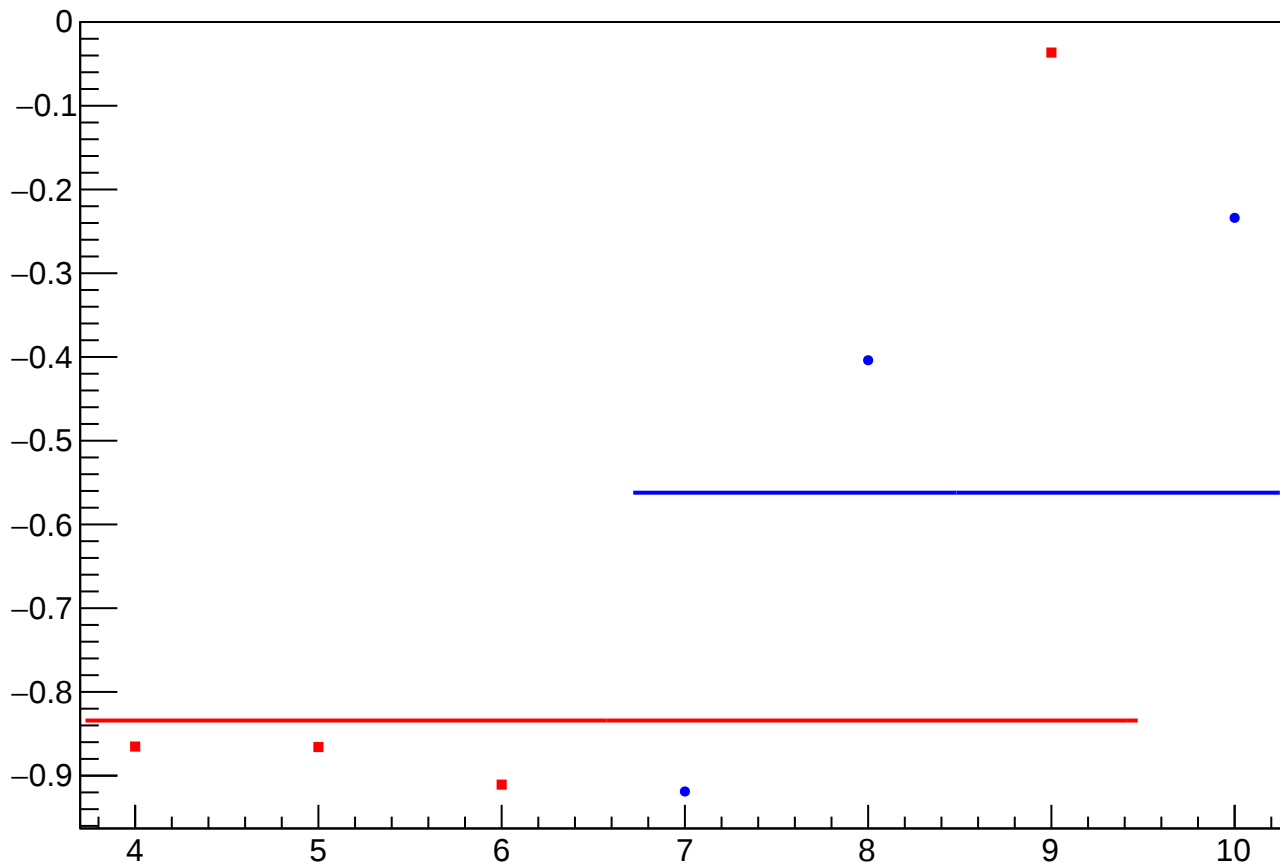
Right Out: 0.028+/-0.000  $\chi^2/\text{NDF}$ : 112083.2/3

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

0.031+/-0.000  $\chi^2/\text{NDF}$ : 127990.4/2

0.028+/-0.000  $\chi^2/\text{NDF}$ : 112083.2/3

yield\_bpm1Y\_mean vs slug



Right In: -0.562+/-0.000  $\chi^2/\text{NDF}$ : 404115485.5/2

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

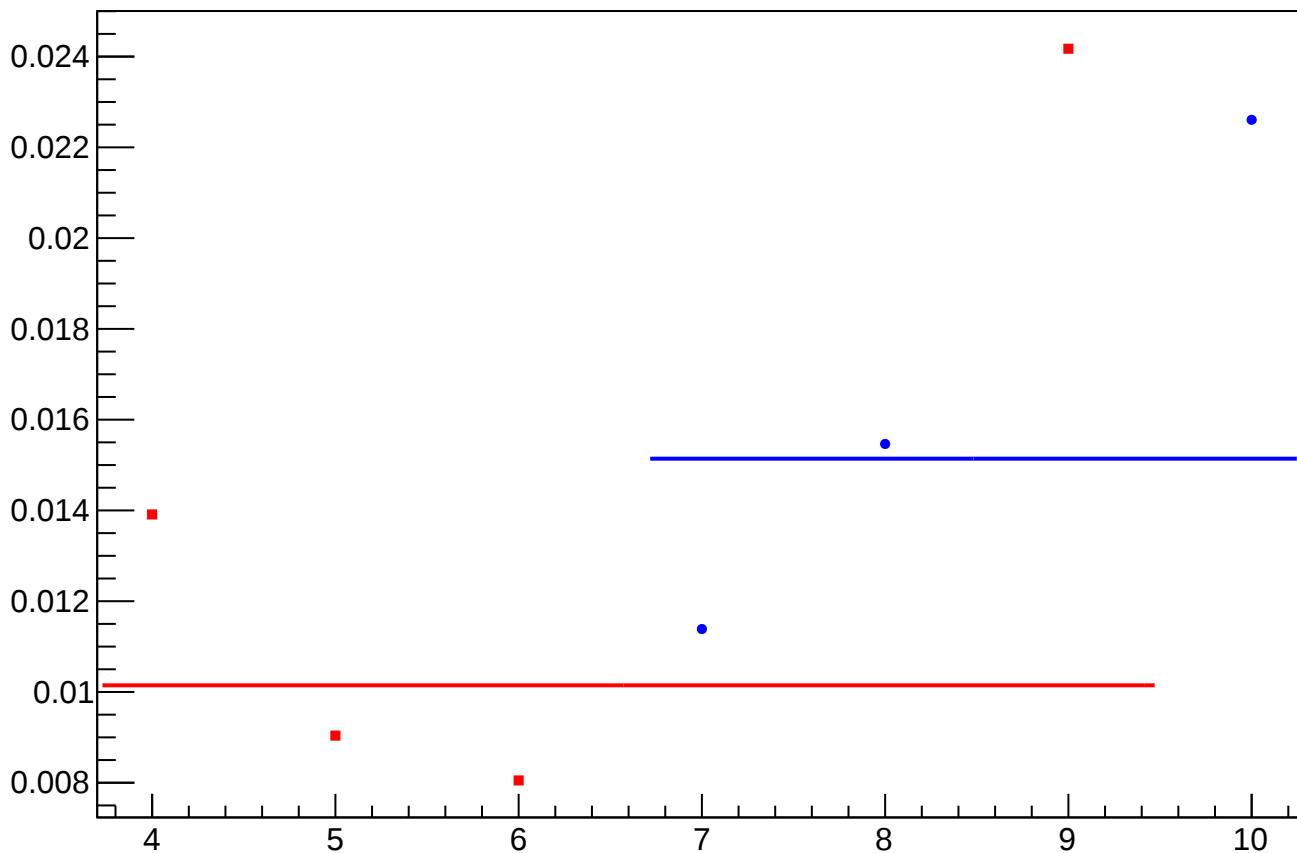
Right Out: -0.834+/-0.000  $\chi^2/\text{NDF}$ : 623904446.2/3

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

-0.562+/-0.000  $\chi^2/\text{NDF}$ : 404115485.5/2

-0.834+/-0.000  $\chi^2/\text{NDF}$ : 623904446.2/3

# yield\_bpm1Y\_rms vs slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 151189.8/2

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

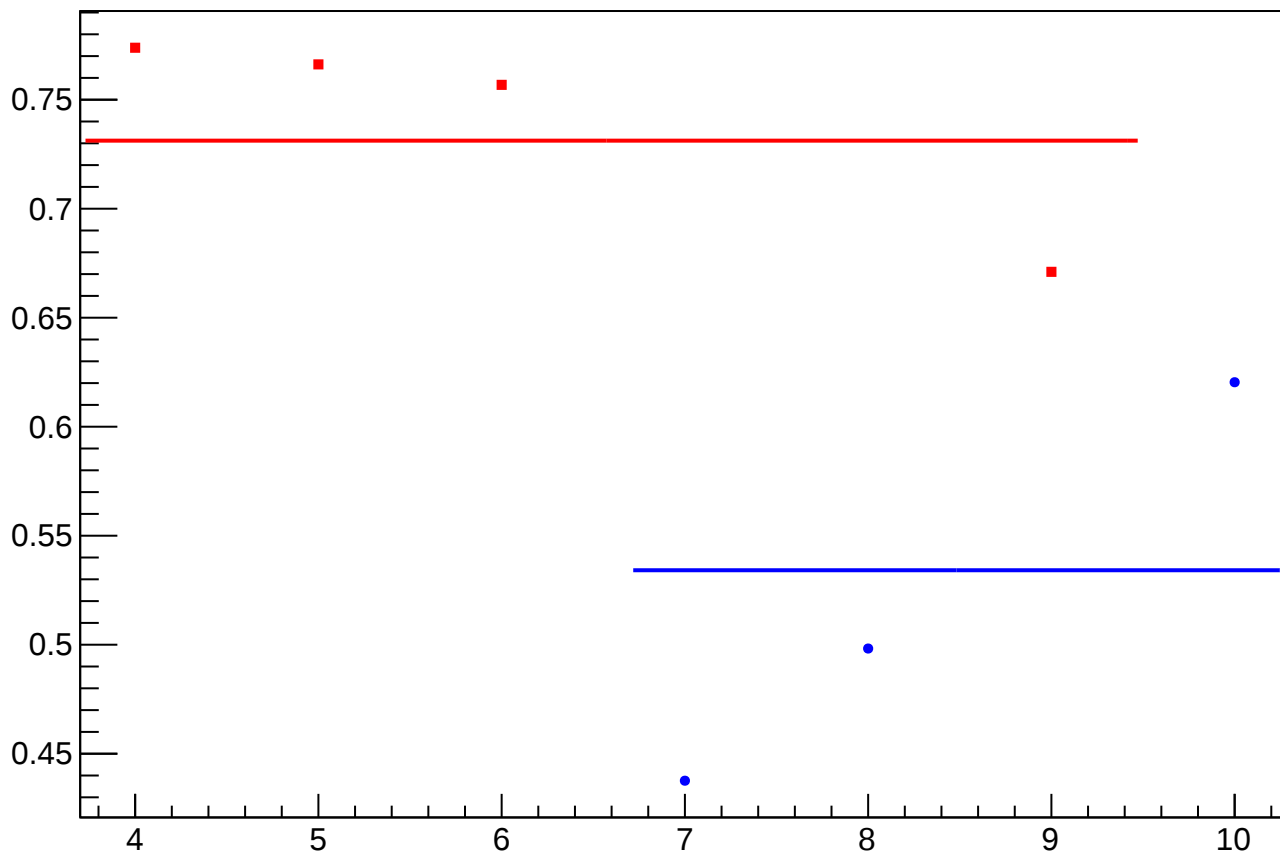
Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 474707.1/3

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

0.015+/-0.000  $\chi^2/\text{NDF}$ : 151189.8/2

0.010+/-0.000  $\chi^2/\text{NDF}$ : 474707.1/3

# yield\_bpm11X\_mean vs slug



Right In: 0.534+/-0.000  $\chi^2/\text{NDF}$ : 21922442.0/2

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

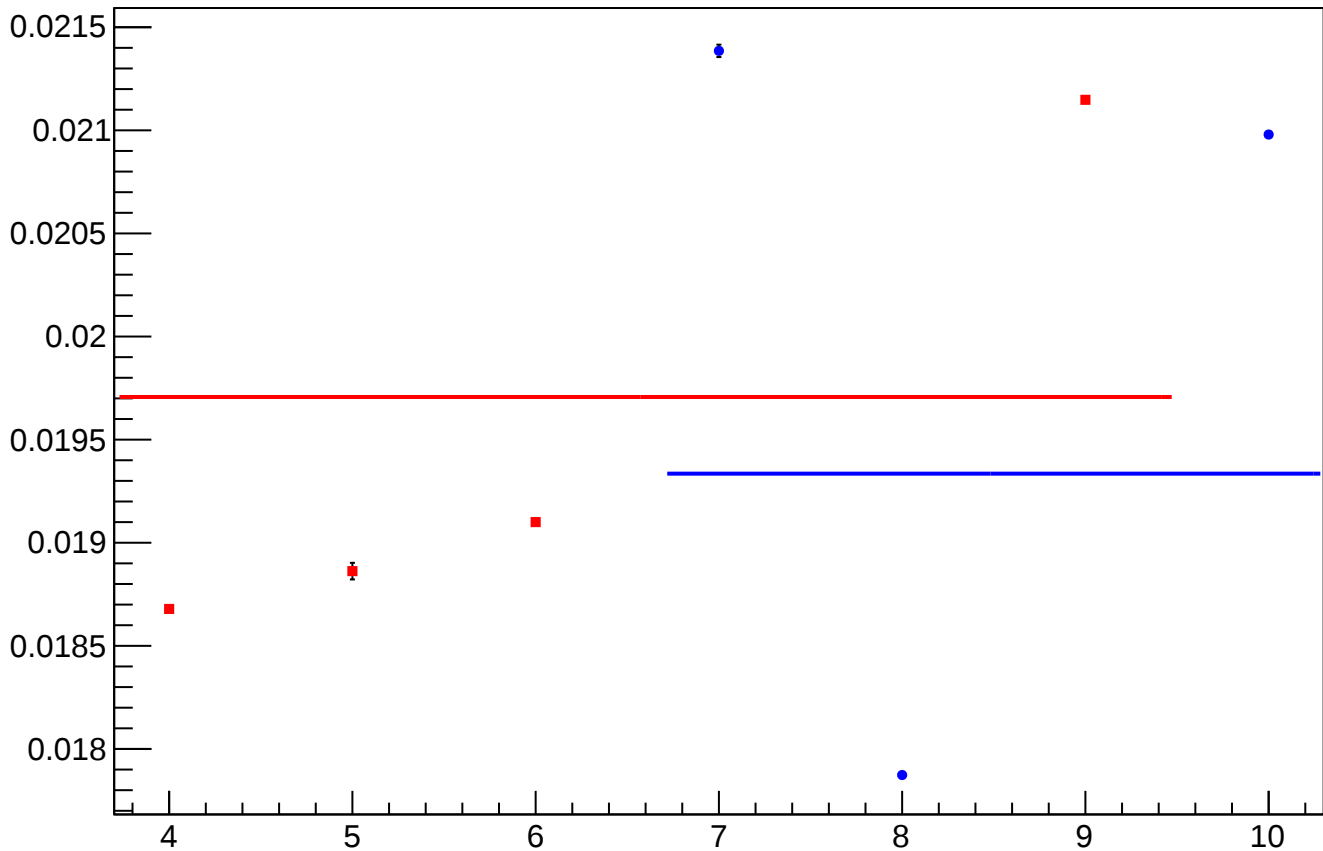
Right Out: 0.731+/-0.000  $\chi^2/\text{NDF}$ : 9161802.7/3

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

0.534+/-0.000  $\chi^2/\text{NDF}$ : 21922442.0/2

0.731+/-0.000  $\chi^2/\text{NDF}$ : 9161802.7/3

# yield\_bpm11X\_rms vs slug



Right In: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 26085.2/2

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

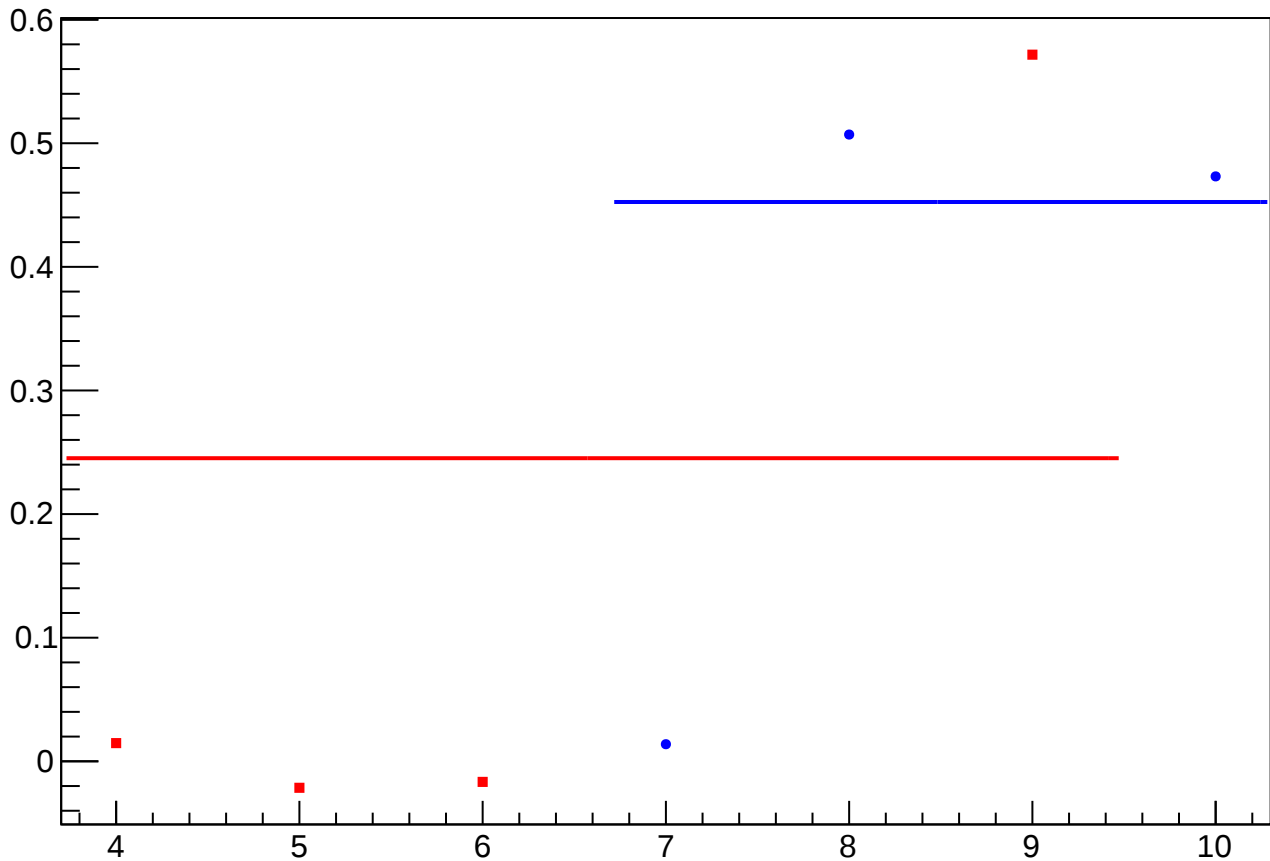
Right Out: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 10524.6/3

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

0.019+/-0.000  $\chi^2/\text{NDF}$ : 26085.2/2

0.020+/-0.000  $\chi^2/\text{NDF}$ : 10524.6/3

yield\_bpm11Y\_mean vs slug



Right In: 0.452+/-0.000  $\chi^2/\text{NDF}$ : 5461514305.2/2

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

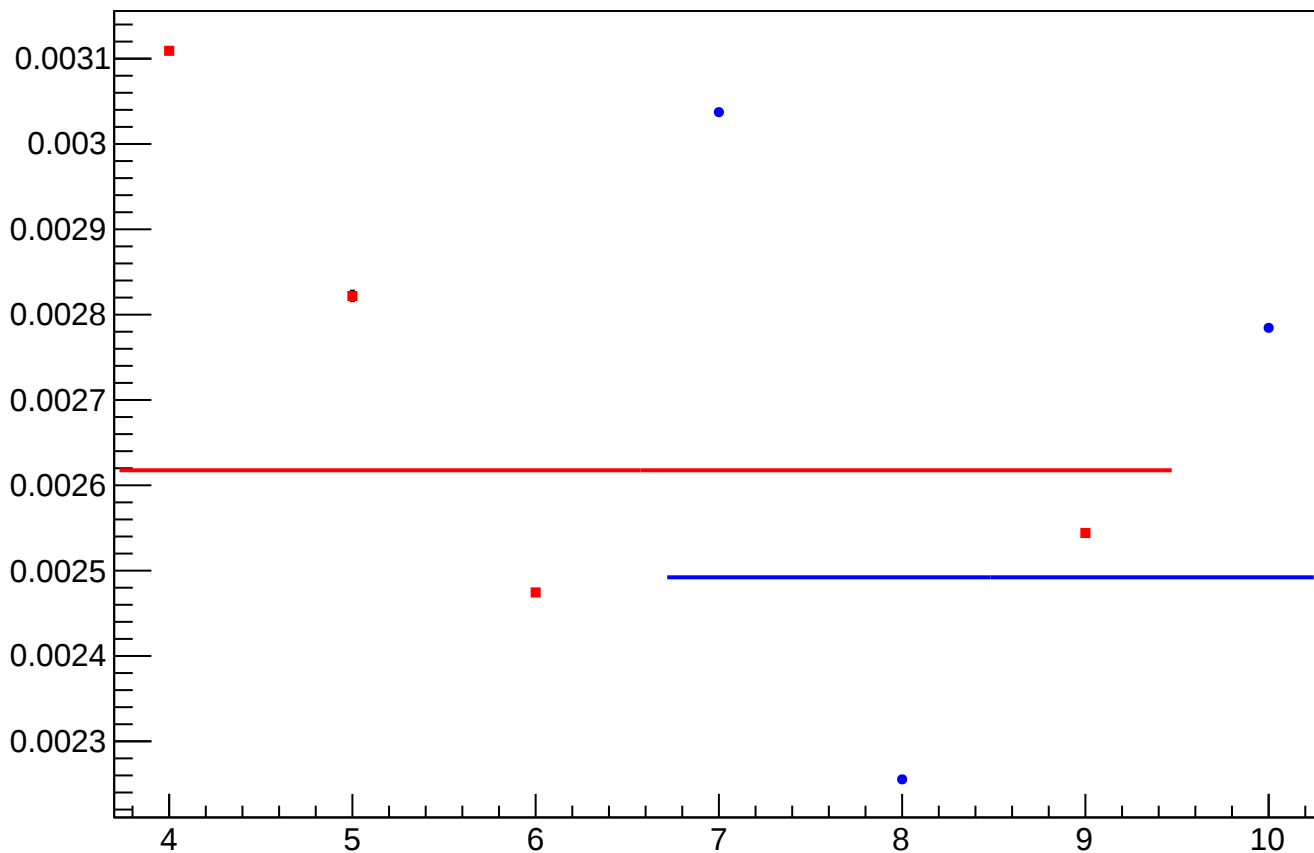
0.452+/-0.000  $\chi^2/\text{NDF}$ : 5461514305.2/2

Right Out: 0.245+/-0.000  $\chi^2/\text{NDF}$ : 20850079770.9/3

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

0.245+/-0.000  $\chi^2/\text{NDF}$ : 20850079770.9/3

# yield\_bpm11Y\_rms vs slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 49847.6/2

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

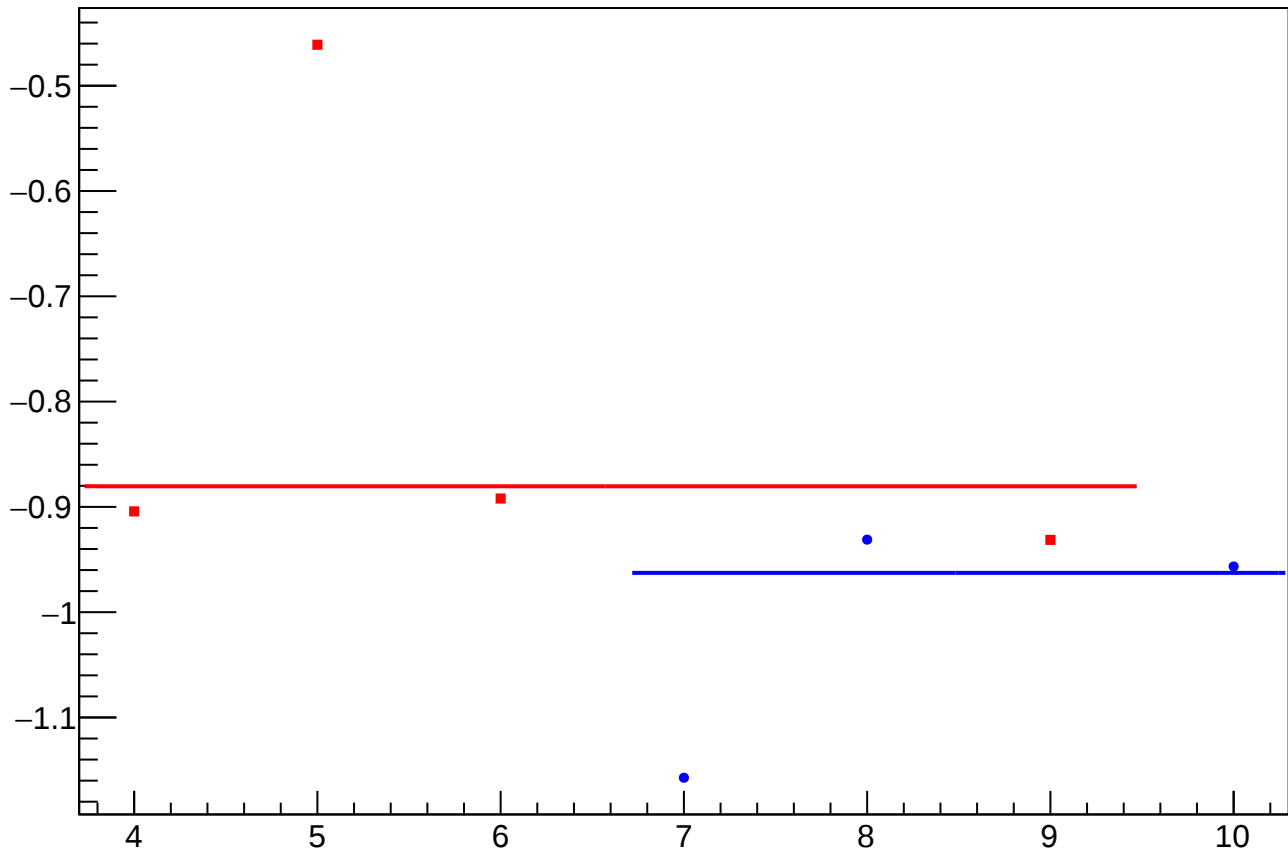
Right Out: 0.003 $\pm$ 0.000  $\chi^2$ /NDF: 24069.3/3

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

0.002 $\pm$ 0.000  $\chi^2$ /NDF: 49847.6/2

0.003 $\pm$ 0.000  $\chi^2$ /NDF: 24069.3/3

# yield\_bpm12X\_mean vs slug



Right In: -0.963+/-0.000  $\chi^2/\text{NDF}$ : 19384343.6/2

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

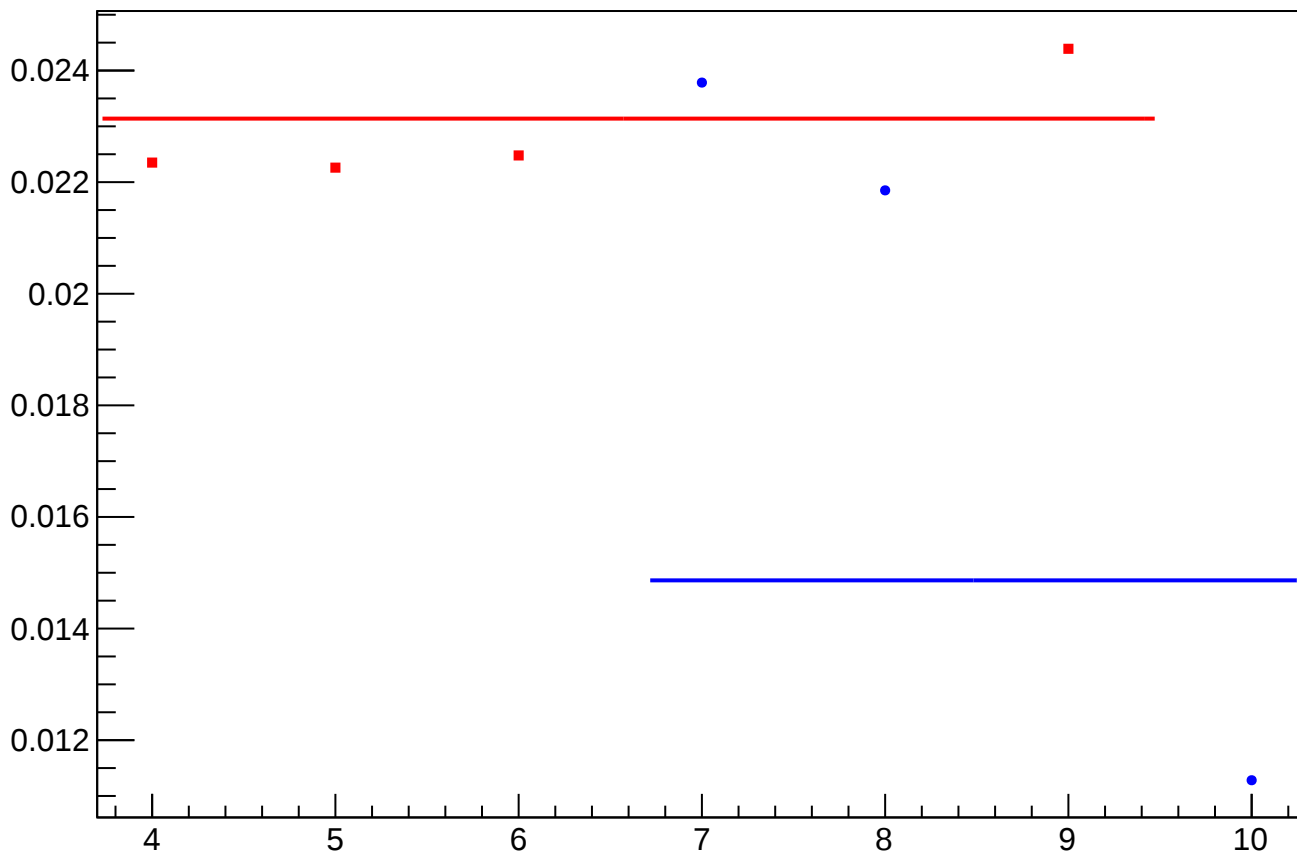
-0.963+/-0.000  $\chi^2/\text{NDF}$ : 19384343.6/2

Right Out: -0.880+/-0.000  $\chi^2/\text{NDF}$ : 43379493.5/3

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

-0.880+/-0.000  $\chi^2/\text{NDF}$ : 43379493.5/3

yield\_bpm12X\_rms vs slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 381745.3/2

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

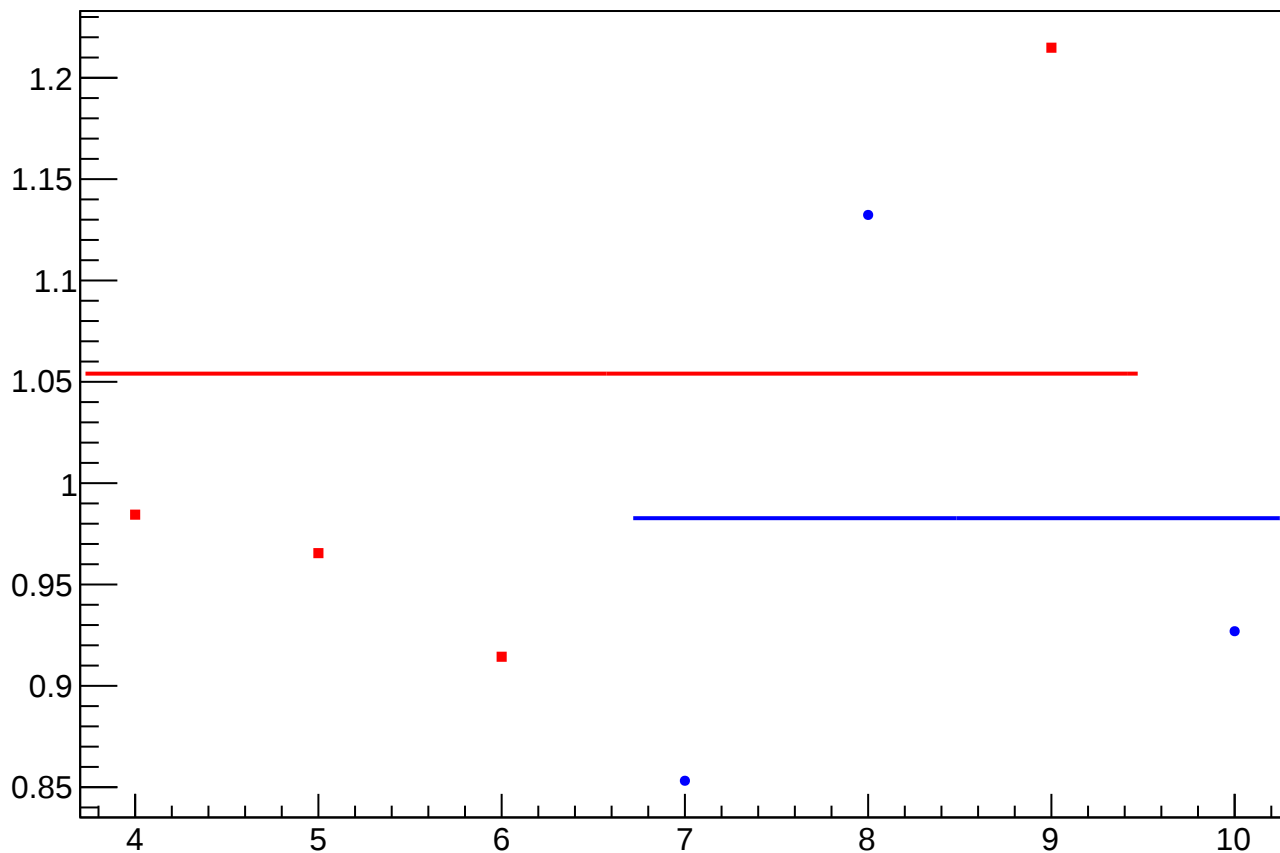
Right Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 6160.0/3

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

0.015+/-0.000  $\chi^2/\text{NDF}$ : 381745.3/2

0.023+/-0.000  $\chi^2/\text{NDF}$ : 6160.0/3

# yield\_bpm12Y\_mean vs slug



Right In: 0.983+/-0.000  $\chi^2/\text{NDF}$ : 180249693.5/2

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

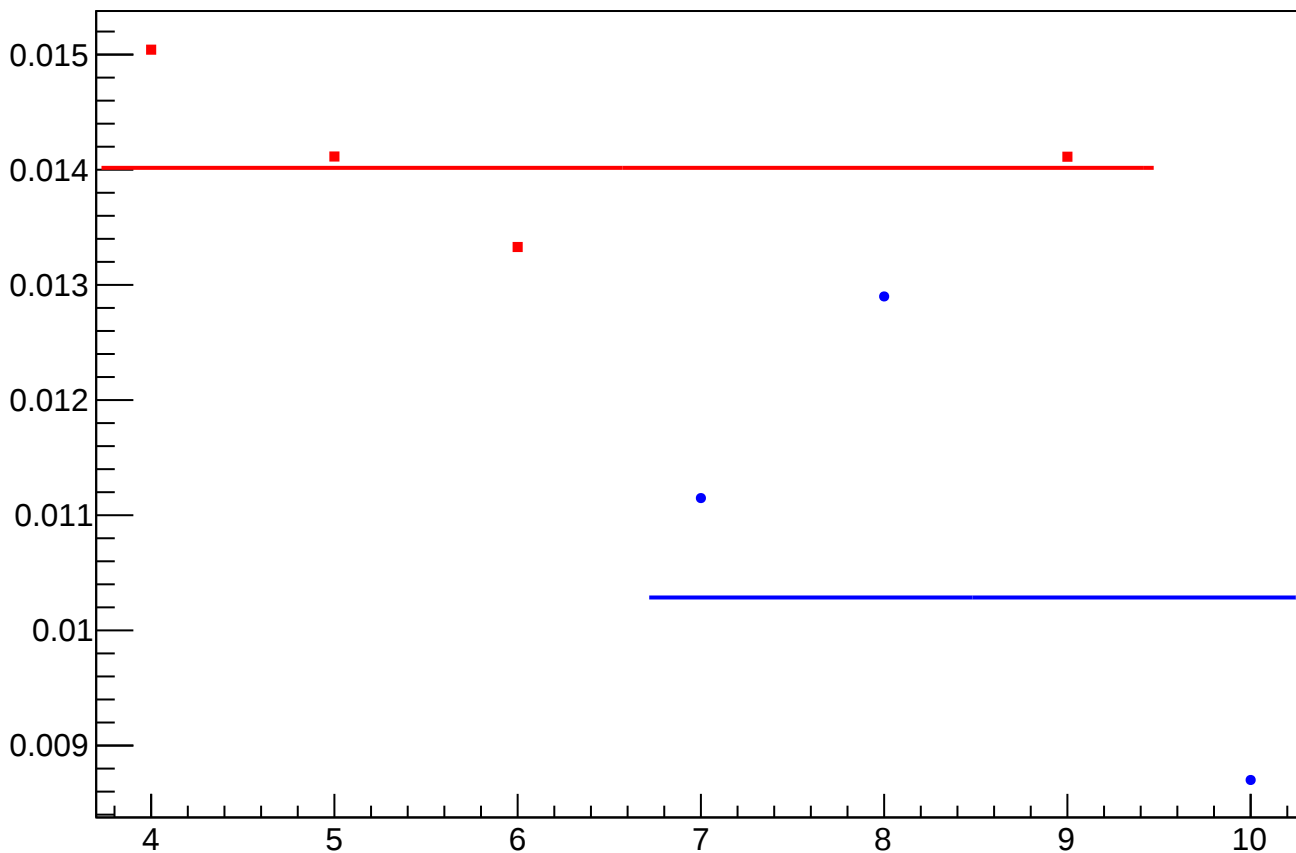
Right Out: 1.054+/-0.000  $\chi^2/\text{NDF}$ : 166455959.6/3

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

0.983+/-0.000  $\chi^2/\text{NDF}$ : 180249693.5/2

1.054+/-0.000  $\chi^2/\text{NDF}$ : 166455959.6/3

yield\_bpm12Y\_rms vs slug



Right In: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 123805.8/2

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

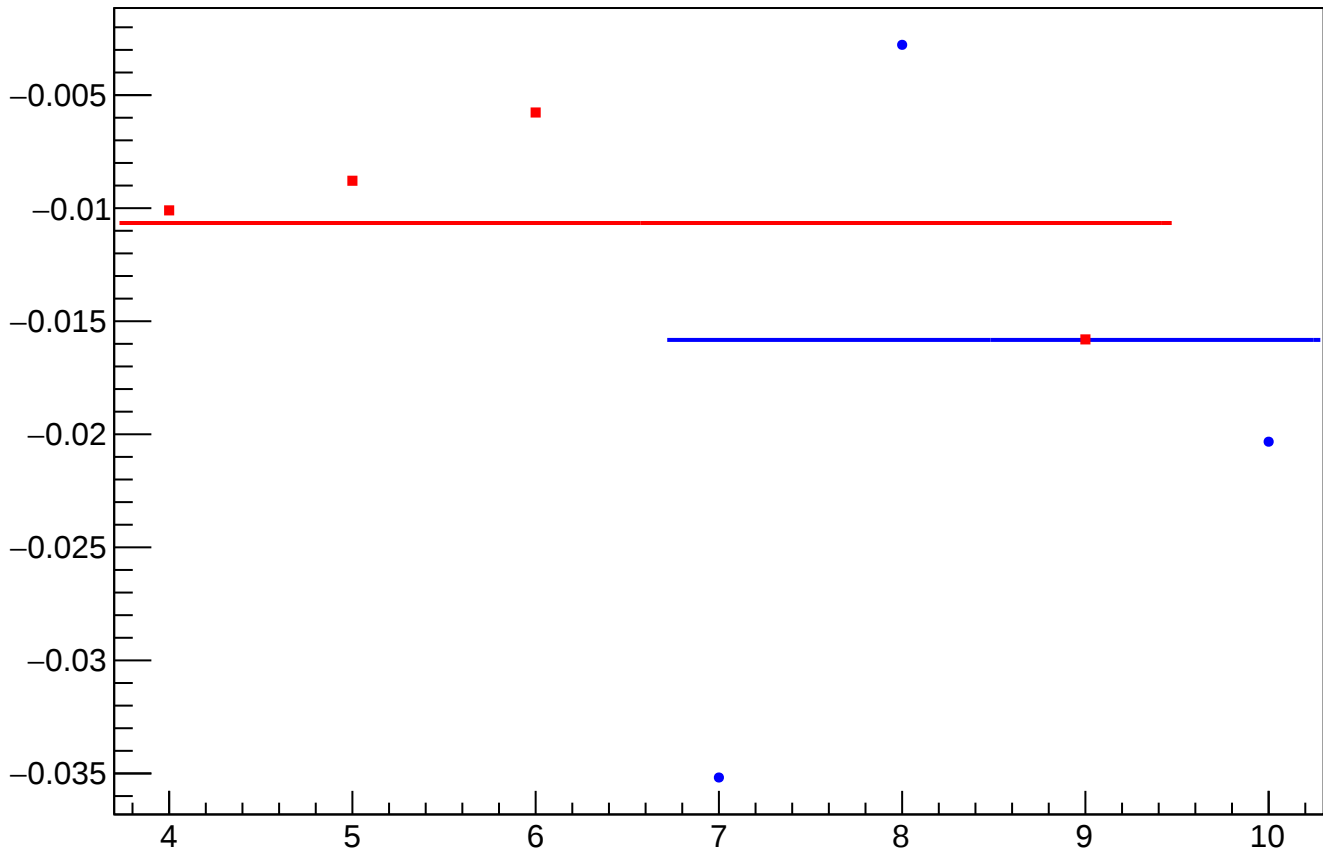
Right Out: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 6447.1/3

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

0.010 $\pm$ 0.000  $\chi^2$ /NDF: 123805.8/2

0.014 $\pm$ 0.000  $\chi^2$ /NDF: 6447.1/3

# yield\_bpm16X\_mean vs slug



Right In: -0.016+/-0.000  $\chi^2/\text{NDF}$ : 6362118.0/2

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

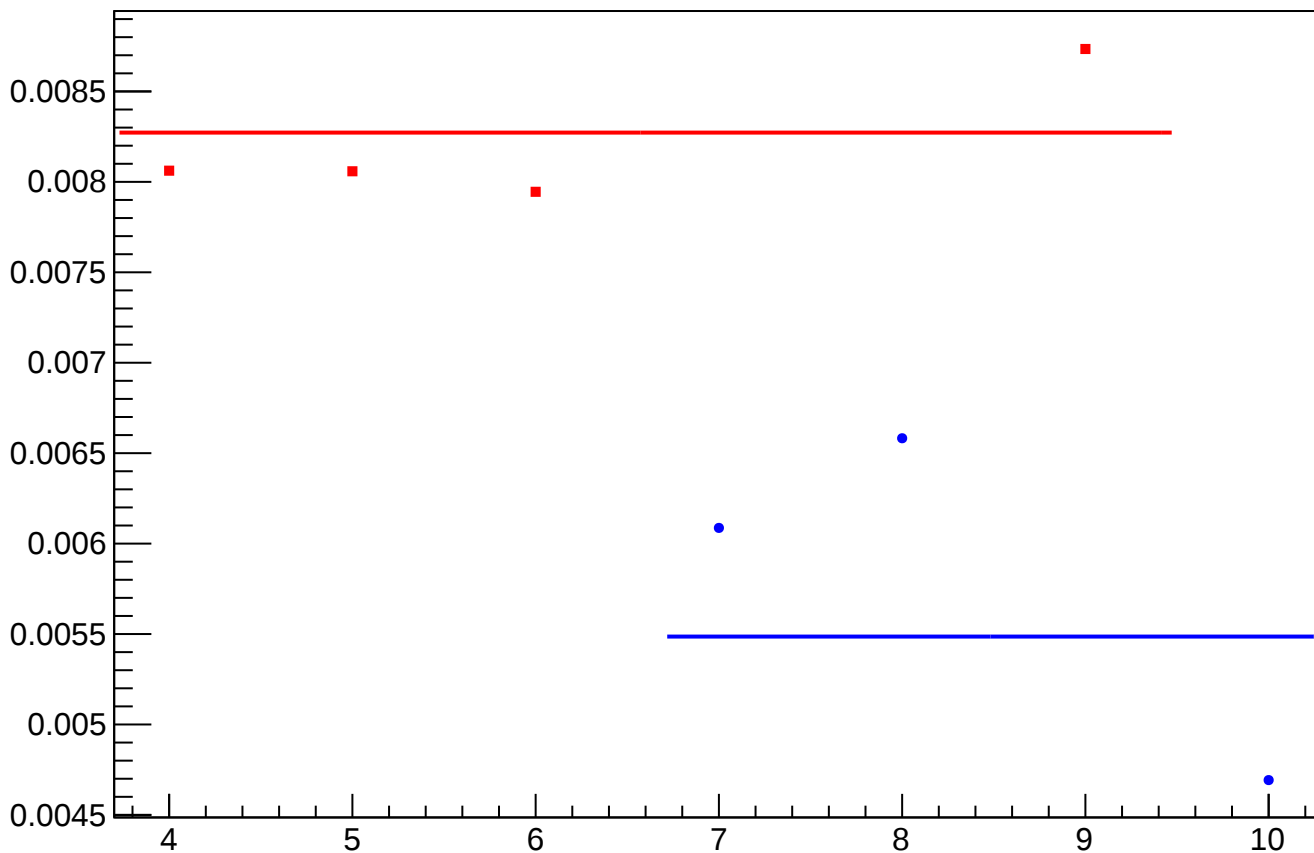
-0.016+/-0.000  $\chi^2/\text{NDF}$ : 6362118.0/2

Right Out: -0.011+/-0.000  $\chi^2/\text{NDF}$ : 465845.2/3

-0.011+/-0.000  $\chi^2/\text{NDF}$ : 465845.2/3

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

# yield\_bpm16X\_rms vs slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 93767.4/2

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

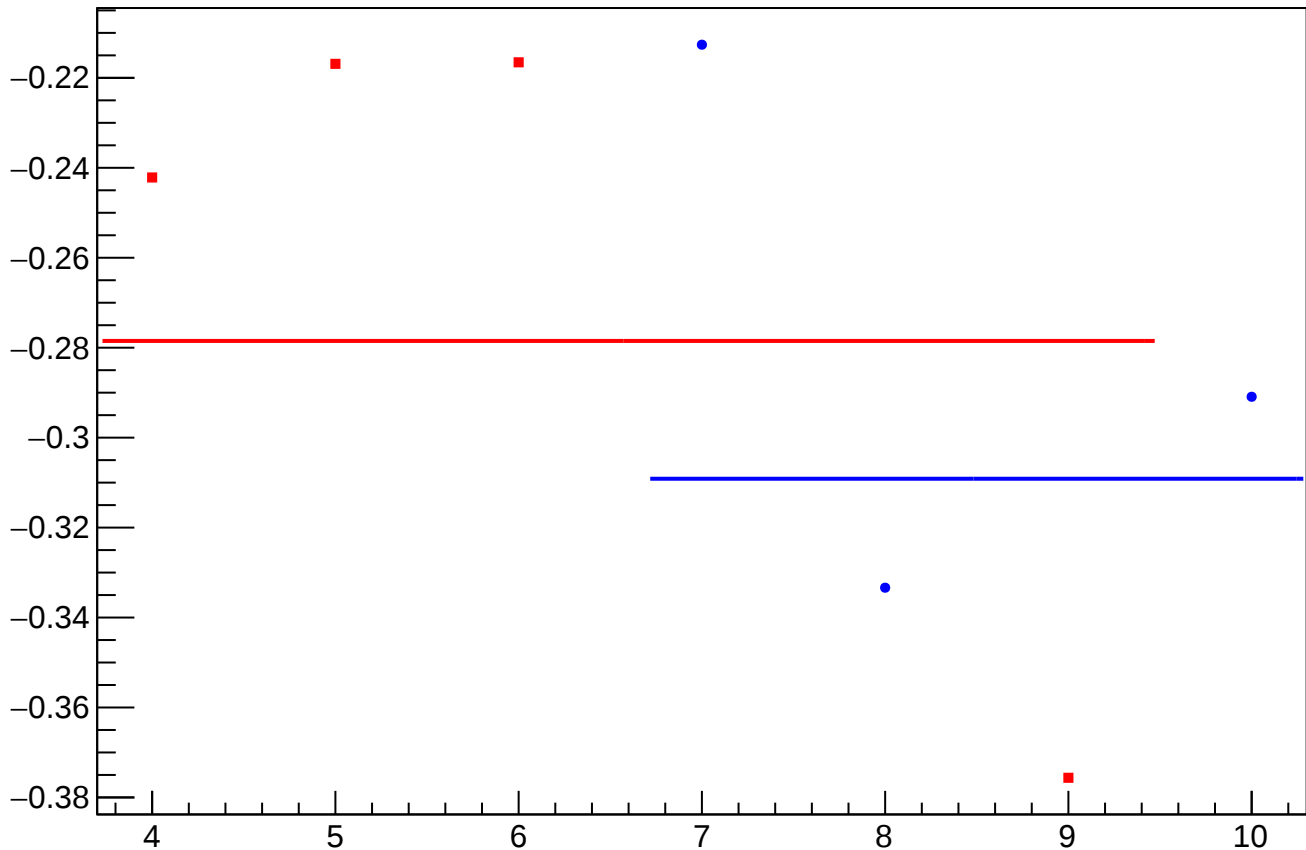
Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 6550.0/3

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

0.005+/-0.000  $\chi^2/\text{NDF}$ : 93767.4/2

0.008+/-0.000  $\chi^2/\text{NDF}$ : 6550.0/3

# yield\_bpm16Y\_mean vs slug



Right In: -0.309+/-0.000  $\chi^2/\text{NDF}$ : 513603612.3/2

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

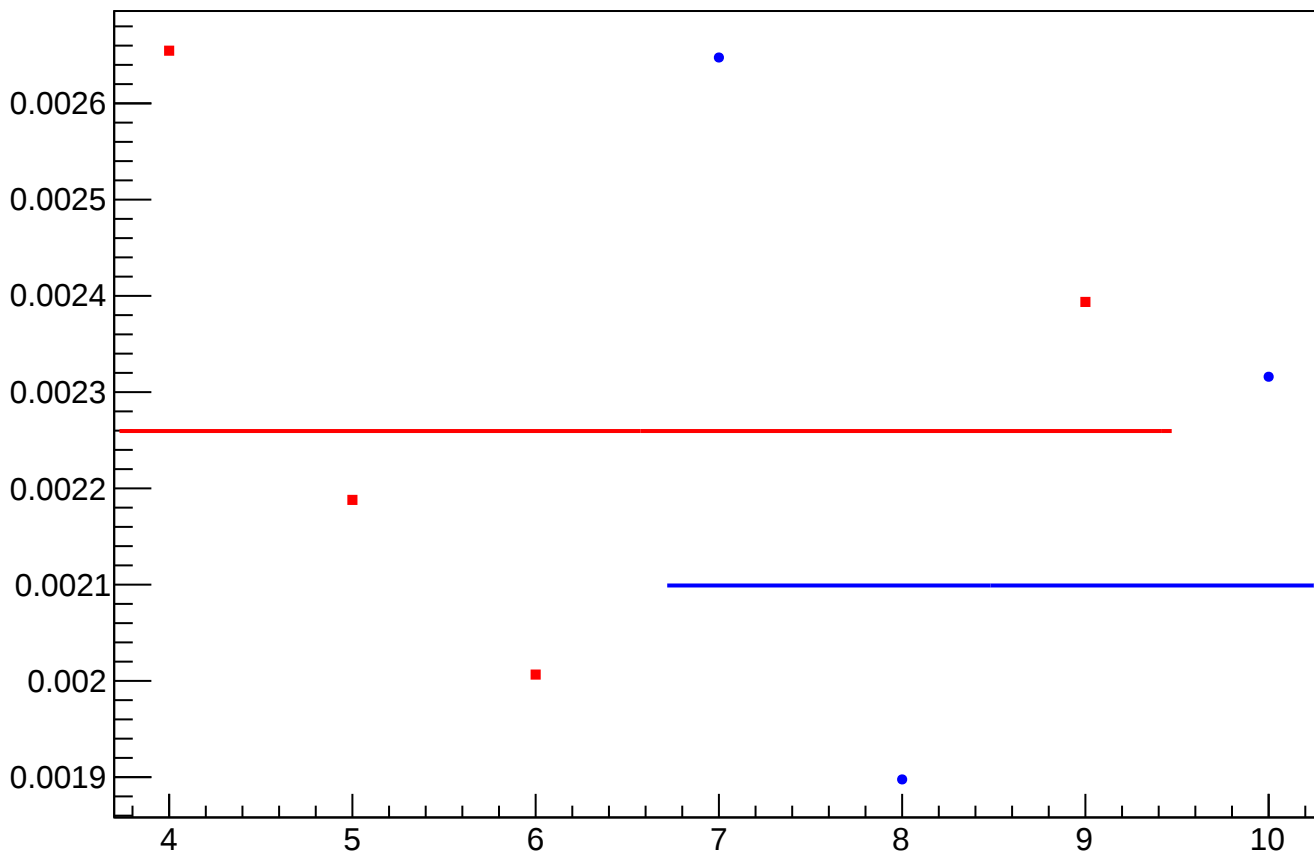
-0.309+/-0.000  $\chi^2/\text{NDF}$ : 513603612.3/2

Right Out: -0.278+/-0.000  $\chi^2/\text{NDF}$ : 1816942332.6/3

-0.278+/-0.000  $\chi^2/\text{NDF}$ : 1816942332.6/3

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

# yield\_bpm16Y\_rms vs slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 53542.3/2

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

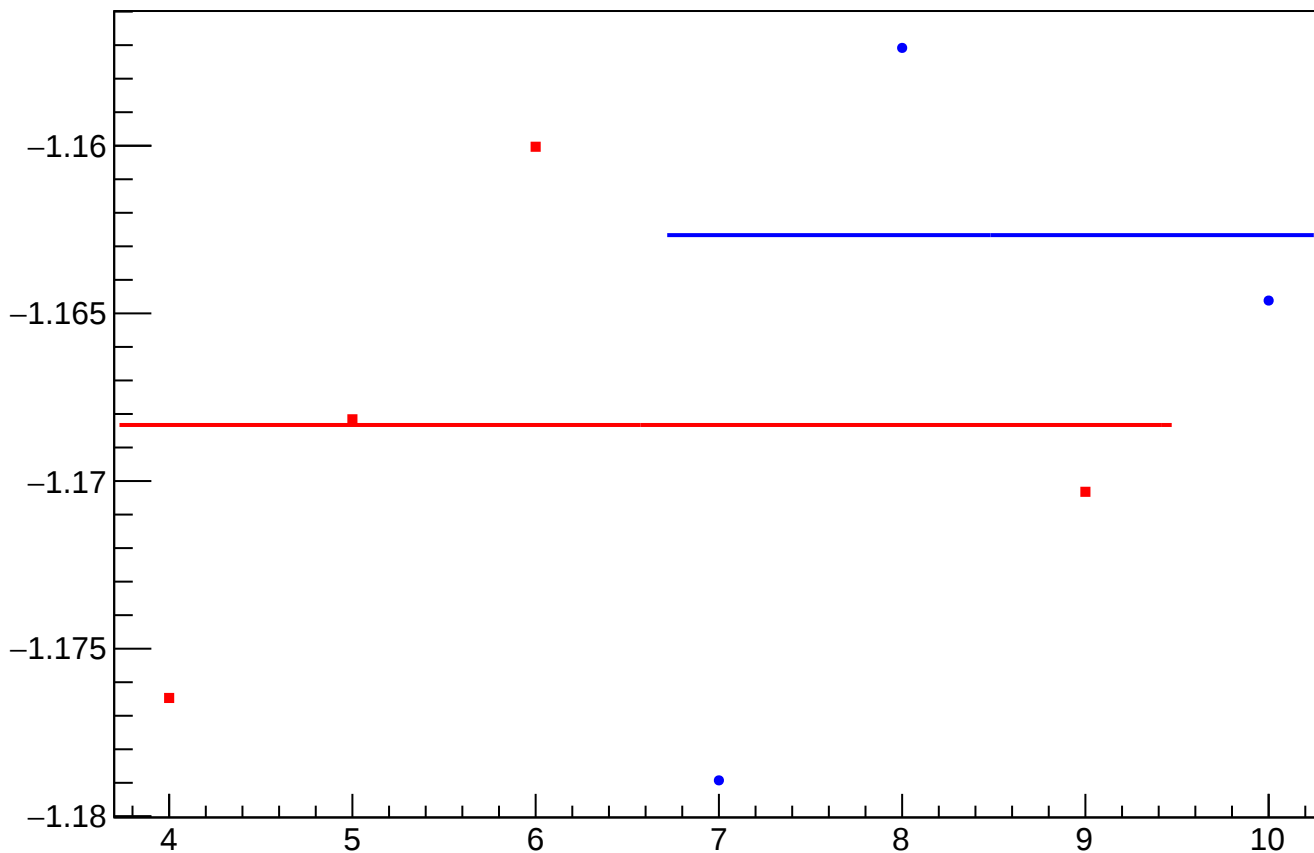
Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 38019.9/3

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

0.002 $\pm$ 0.000  $\chi^2$ /NDF: 53542.3/2

0.002 $\pm$ 0.000  $\chi^2$ /NDF: 38019.9/3

# yield\_bpm2i01X\_mean vs slug



Right In: -1.163+/-0.000  $\chi^2/\text{NDF}$ : 2352175.7/2

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

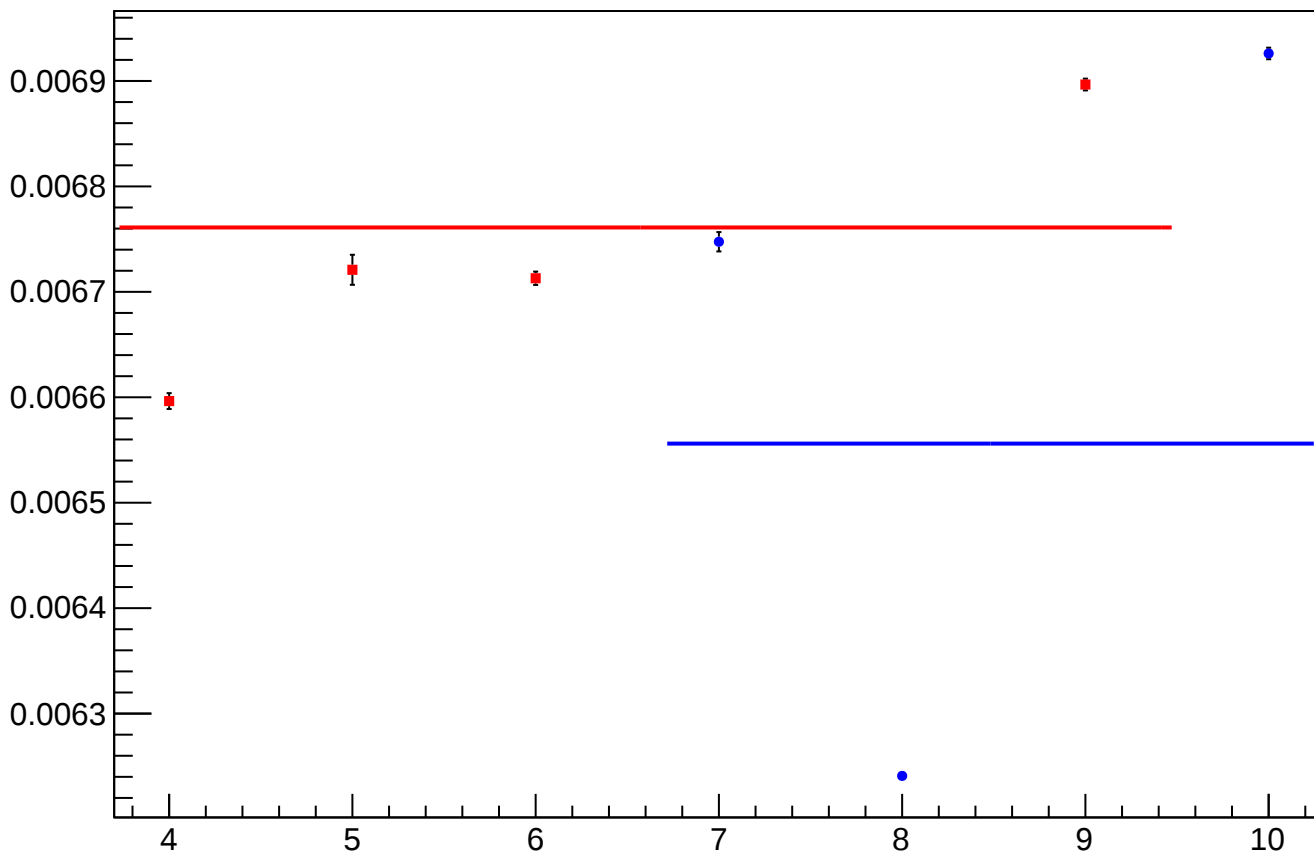
Right Out: -1.168+/-0.000  $\chi^2/\text{NDF}$ : 1508944.8/3

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

-1.163+/-0.000  $\chi^2/\text{NDF}$ : 2352175.7/2

-1.168+/-0.000  $\chi^2/\text{NDF}$ : 1508944.8/3

# yield\_bpm2i01X\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 9562.5/2

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

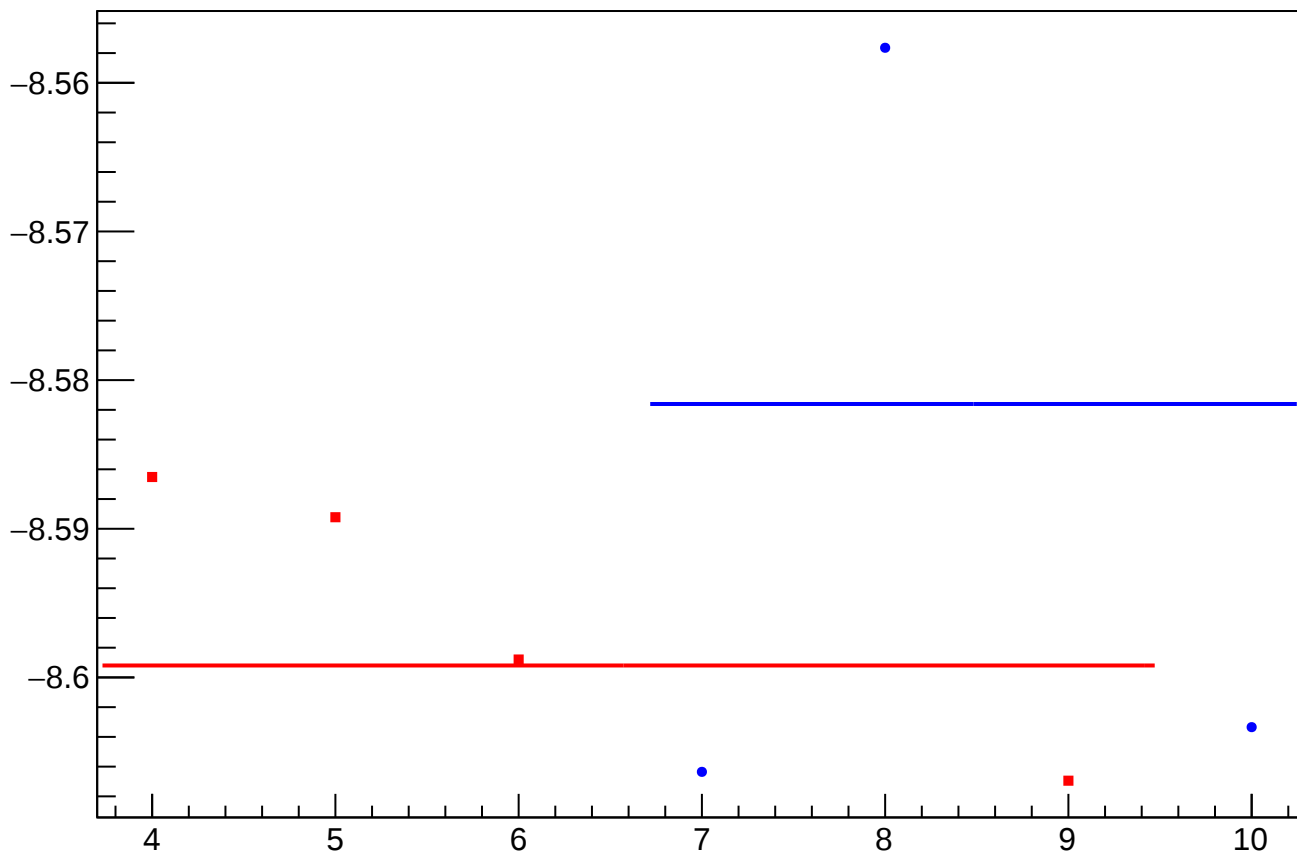
Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1131.3/3

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

0.007+/-0.000  $\chi^2/\text{NDF}$ : 9562.5/2

0.007+/-0.000  $\chi^2/\text{NDF}$ : 1131.3/3

yield\_bpm2i01Y\_mean vs slug



Right In: -8.582+/-0.000  $\chi^2/\text{NDF}$ : 26187505.3/2

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

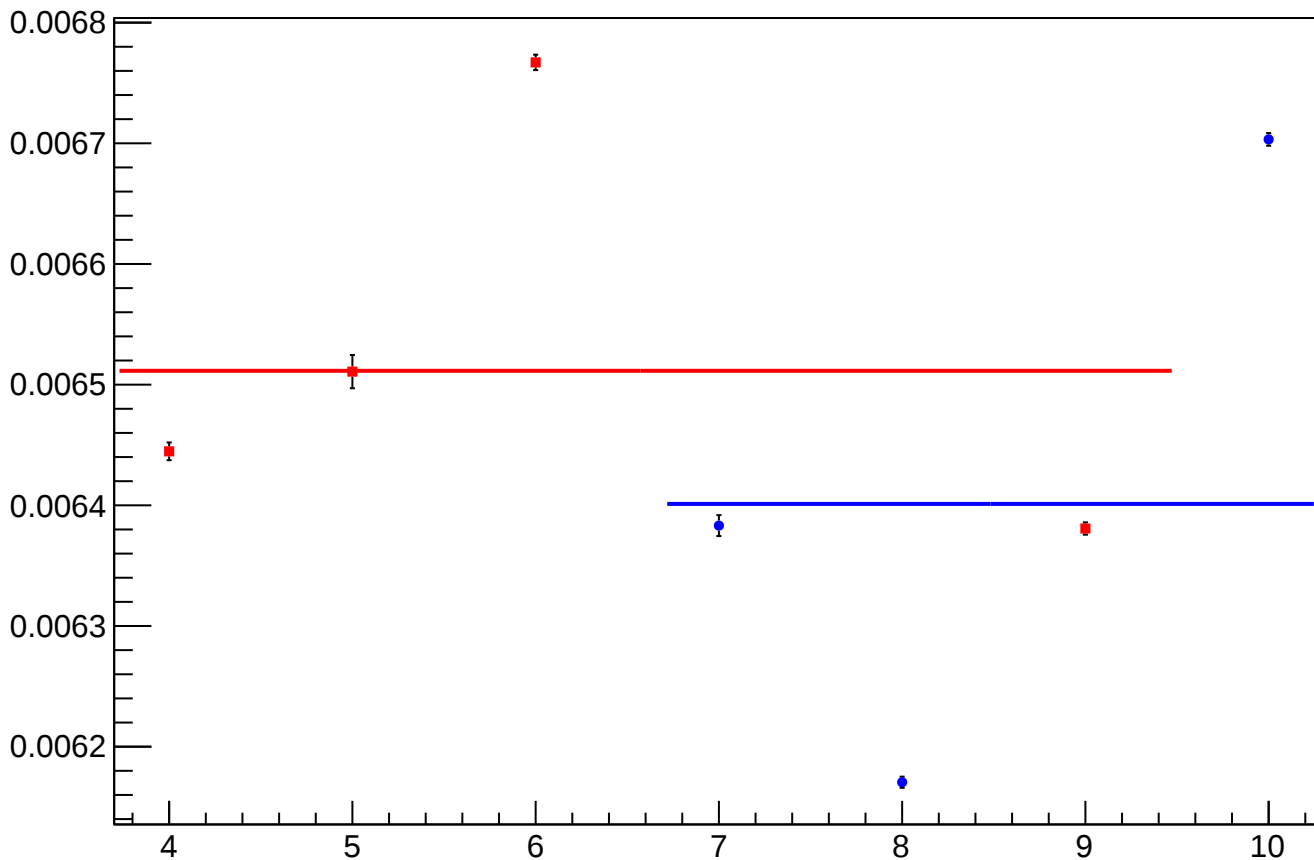
Right Out: -8.599+/-0.000  $\chi^2/\text{NDF}$ : 2906985.8/3

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

-8.582+/-0.000  $\chi^2/\text{NDF}$ : 26187505.3/2

-8.599+/-0.000  $\chi^2/\text{NDF}$ : 2906985.8/3

# yield\_bpm2i01Y\_rms vs slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 5841.0/2

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

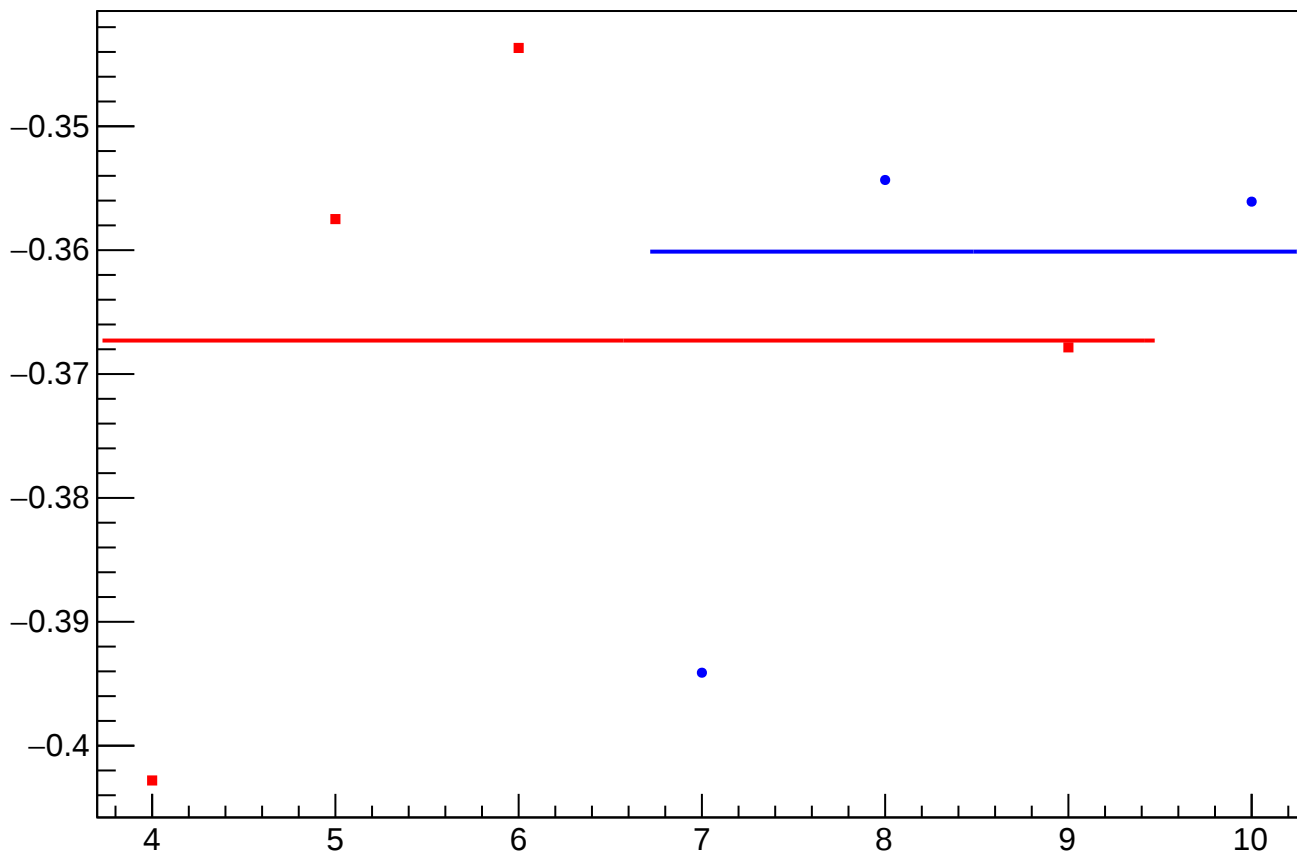
Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 2337.1/3

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

0.006+/-0.000  $\chi^2/\text{NDF}$ : 5841.0/2

0.007+/-0.000  $\chi^2/\text{NDF}$ : 2337.1/3

yield\_bpm2i02X\_mean vs slug



Right In: -0.360+/-0.000  $\chi^2/\text{NDF}$ : 1258171.8/2

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

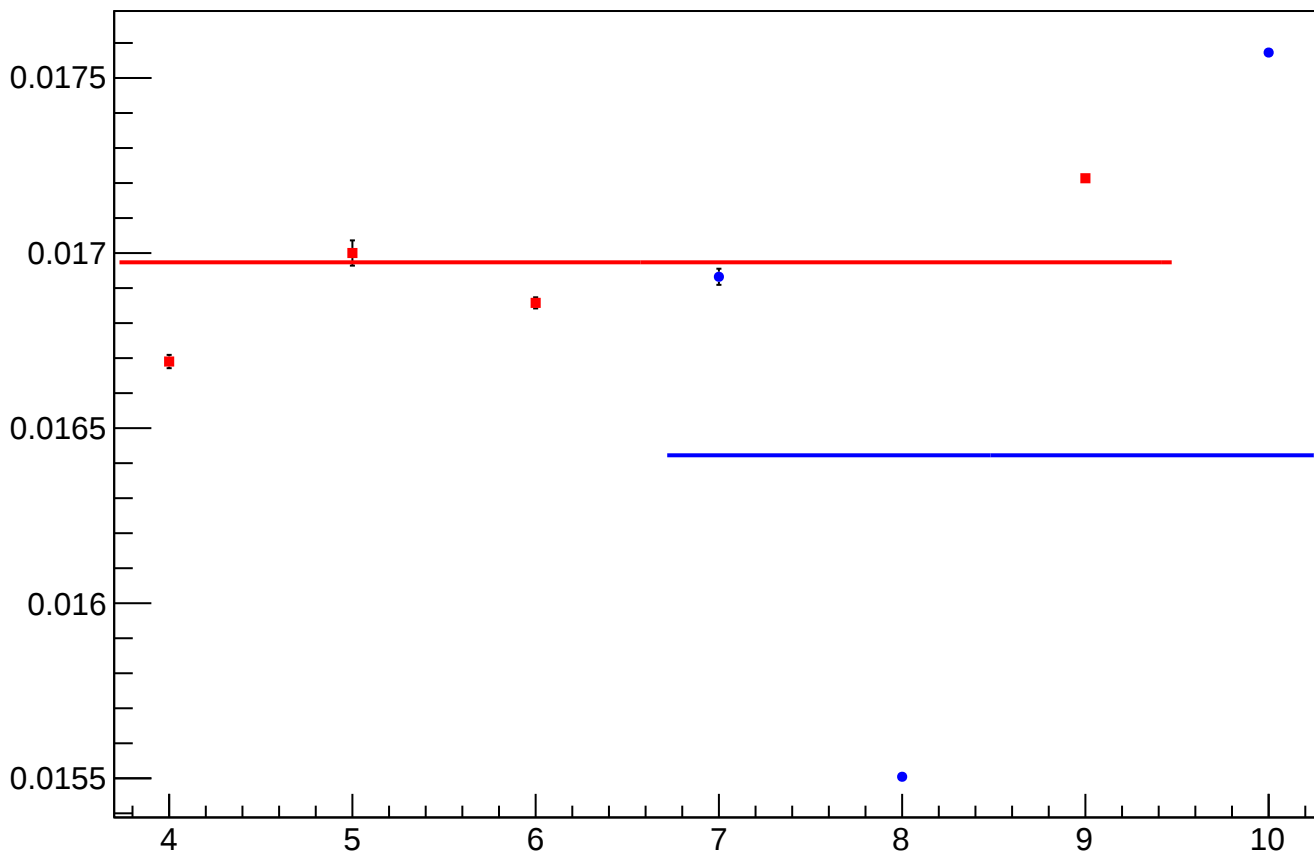
Right Out: -0.367+/-0.000  $\chi^2/\text{NDF}$ : 2892003.2/3

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

-0.360+/-0.000  $\chi^2/\text{NDF}$ : 1258171.8/2

-0.367+/-0.000  $\chi^2/\text{NDF}$ : 2892003.2/3

# yield\_bpm2i02X\_rms vs slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 13630.2/2

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

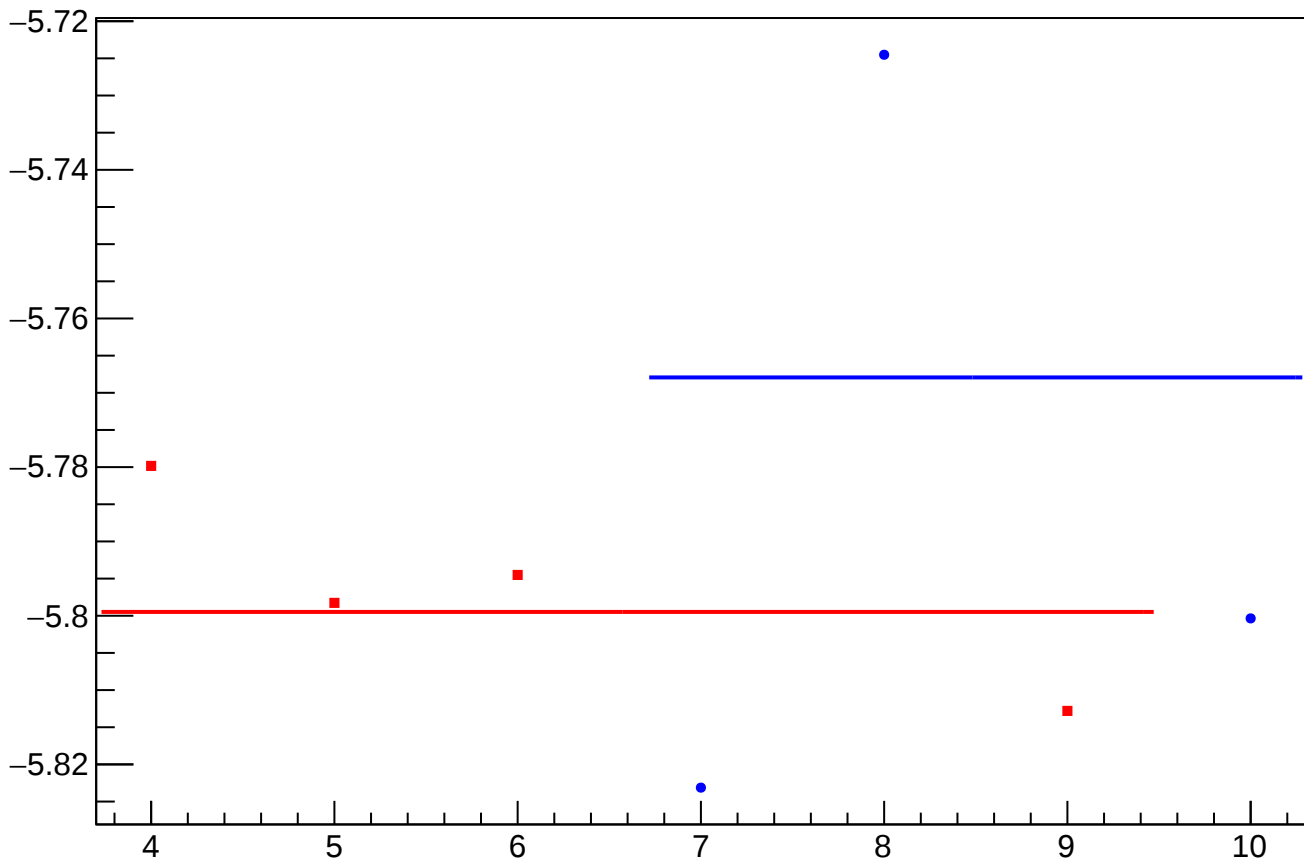
Right Out: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 570.2/3

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

0.016+/-0.000  $\chi^2/\text{NDF}$ : 13630.2/2

0.017+/-0.000  $\chi^2/\text{NDF}$ : 570.2/3

# yield\_bpm2i02Y\_mean vs slug



Right In: -5.768+/-0.000  $\chi^2/\text{NDF}$ : 25978039.9/2

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

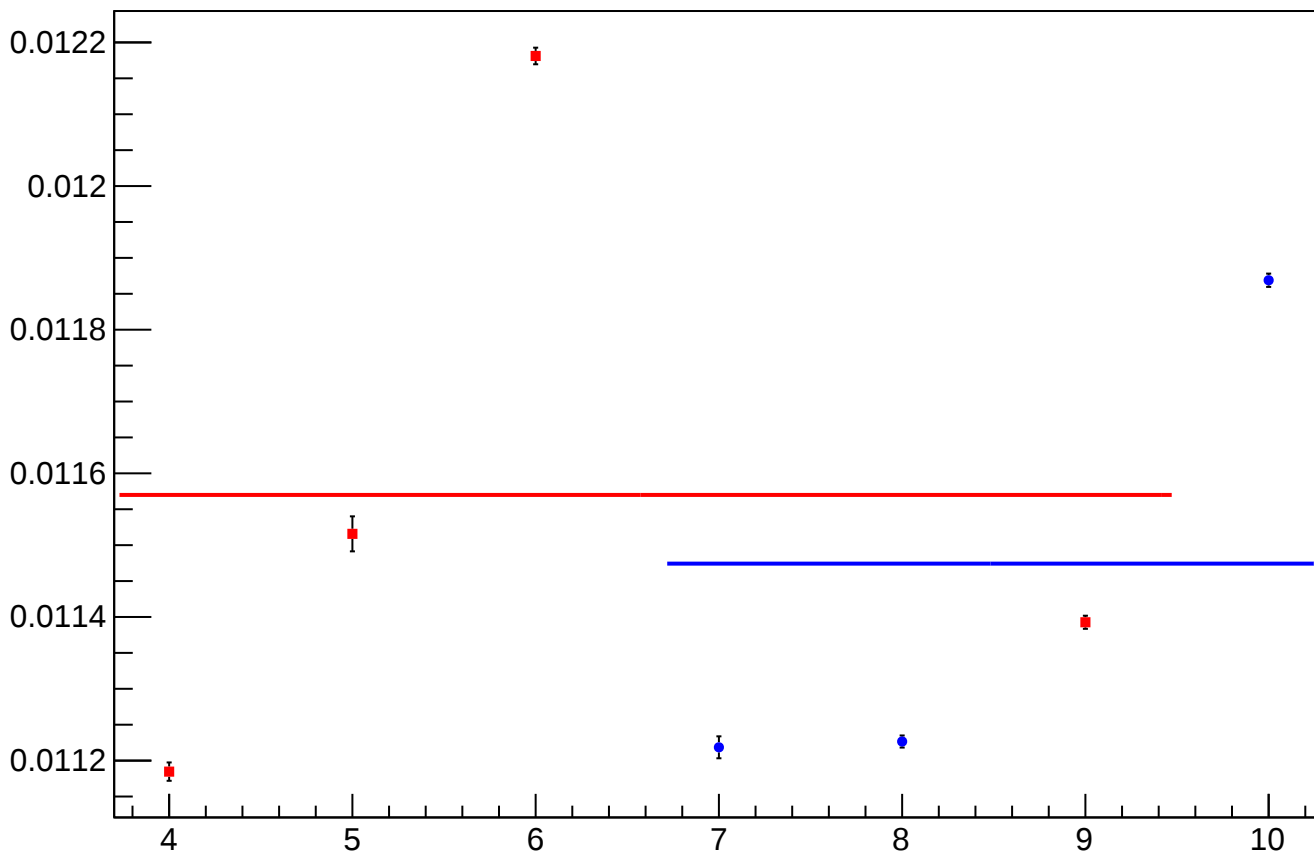
Right Out: -5.799+/-0.000  $\chi^2/\text{NDF}$ : 2339566.5/3

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

-5.768+/-0.000  $\chi^2/\text{NDF}$ : 25978039.9/2

-5.799+/-0.000  $\chi^2/\text{NDF}$ : 2339566.5/3

# yield\_bpm2i02Y\_rms vs slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 2962.2/2

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

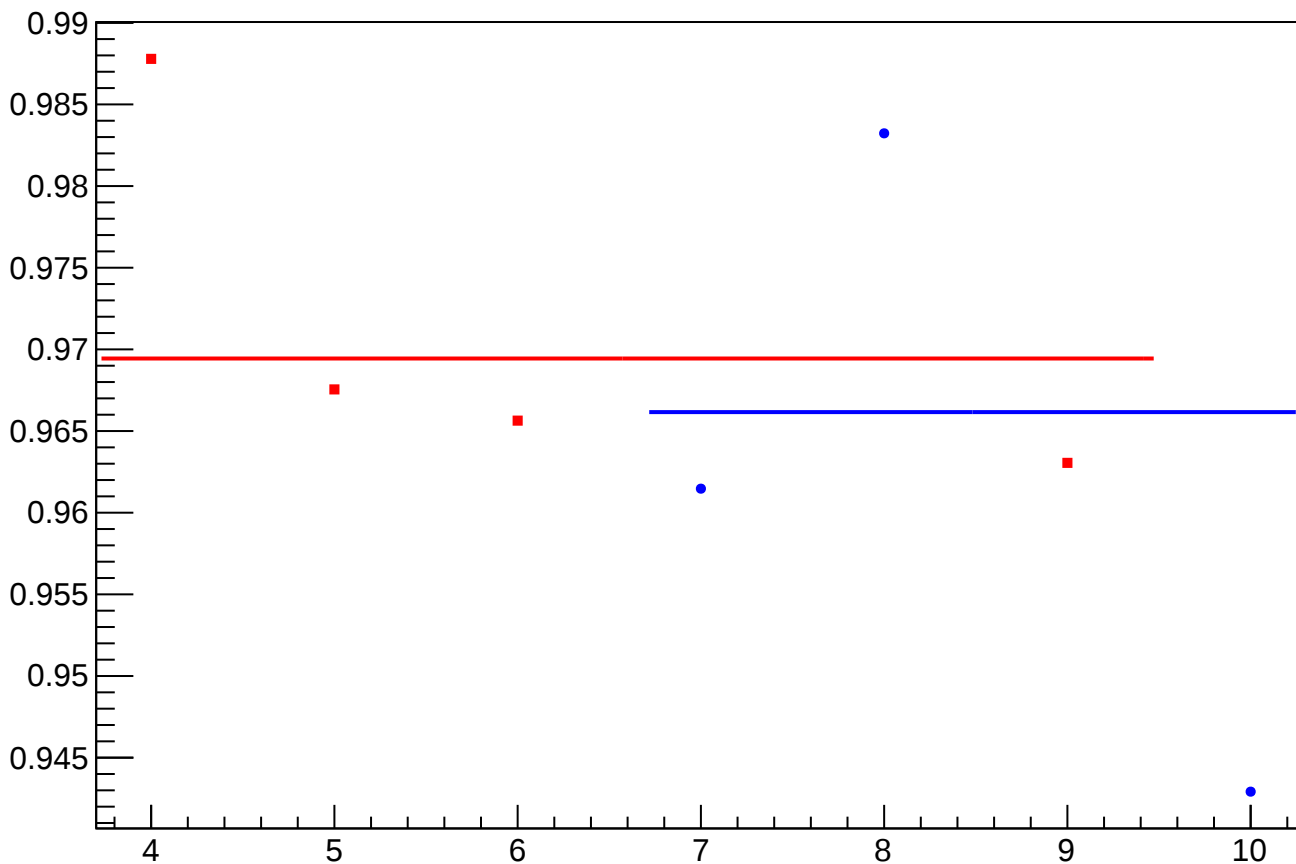
Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 4088.0/3

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

0.011+/-0.000  $\chi^2/\text{NDF}$ : 2962.2/2

0.012+/-0.000  $\chi^2/\text{NDF}$ : 4088.0/3

# yield\_bpm1i04X\_mean vs slug



Right In: 0.966+/-0.000  $\chi^2/\text{NDF}$ : 12504722.8/2

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

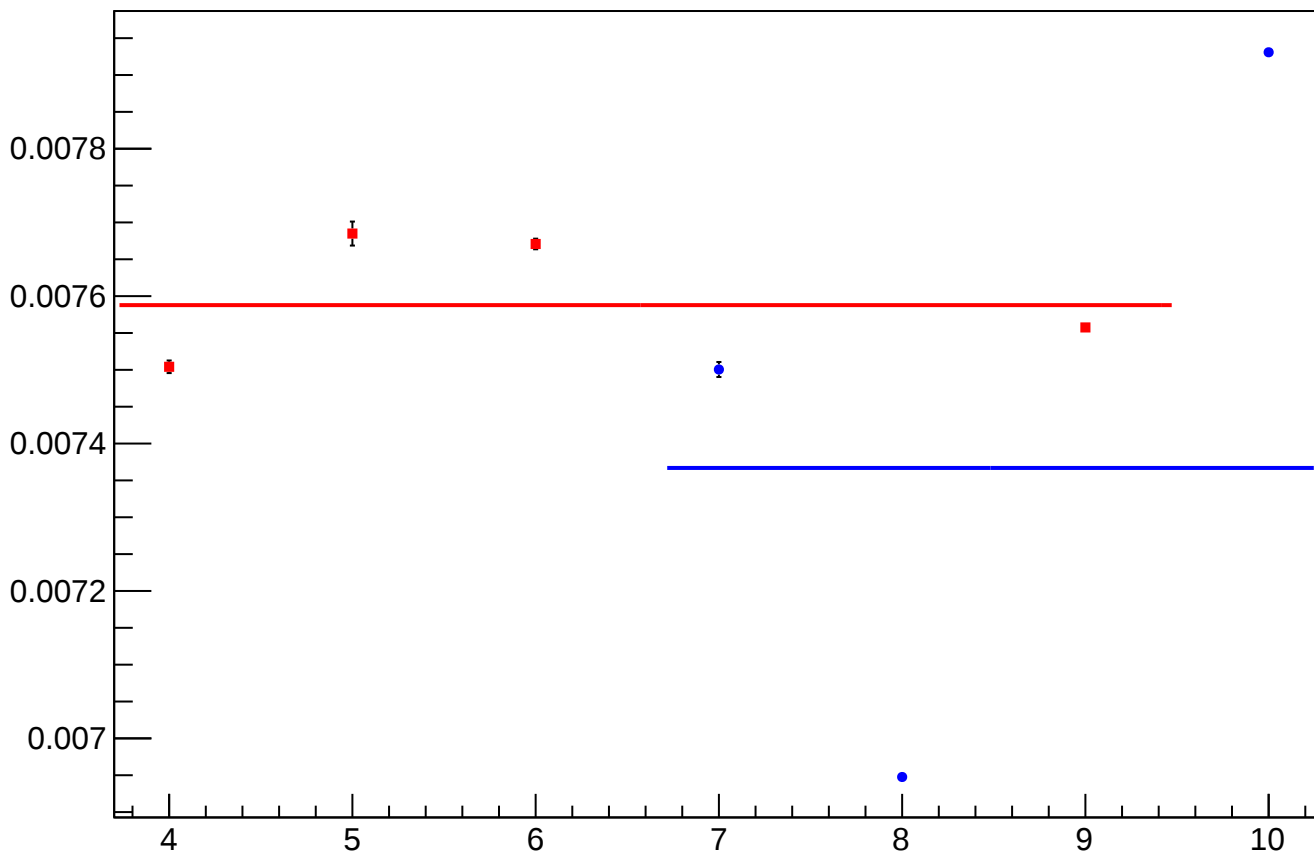
Right Out: 0.969+/-0.000  $\chi^2/\text{NDF}$ : 3001634.2/3

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

0.966+/-0.000  $\chi^2/\text{NDF}$ : 12504722.8/2

0.969+/-0.000  $\chi^2/\text{NDF}$ : 3001634.2/3

# yield\_bpm1i04X\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 14932.8/2

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

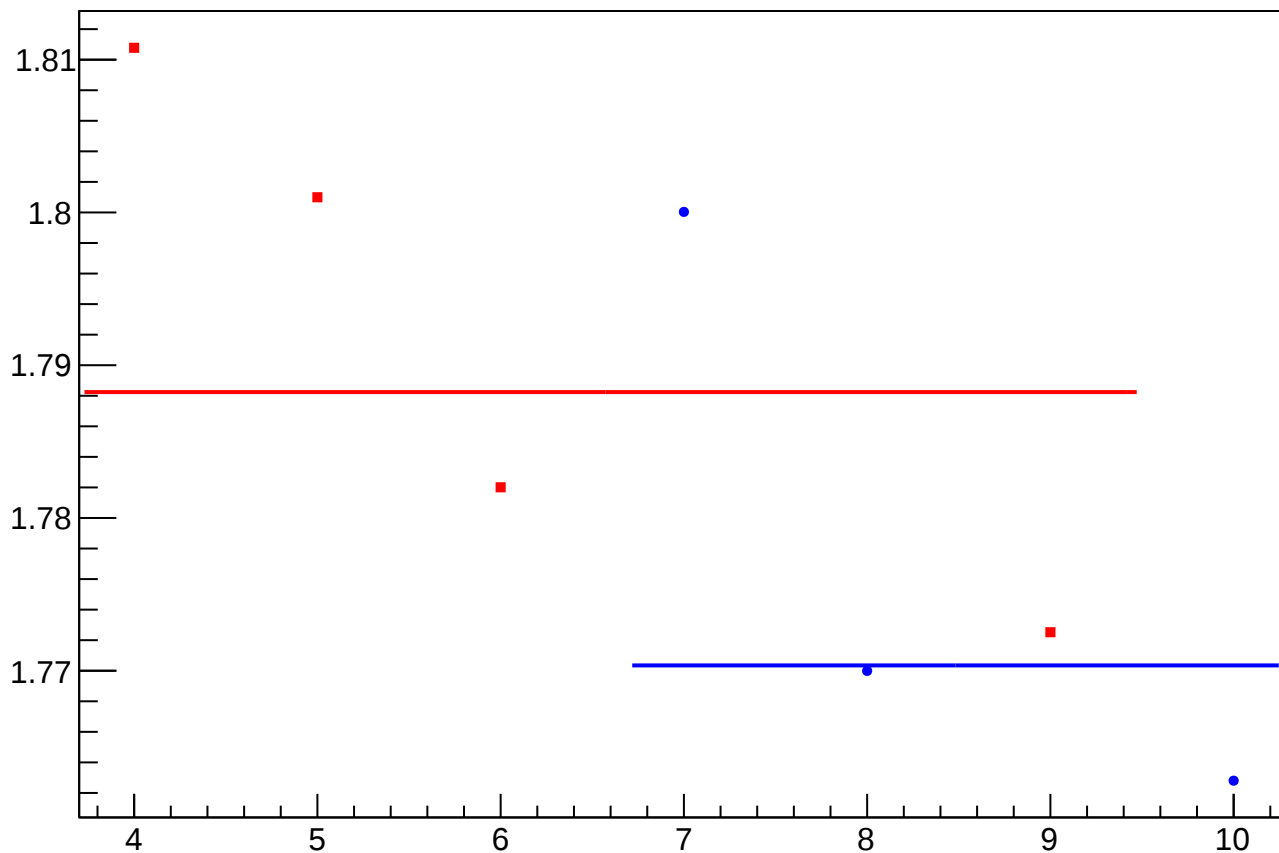
Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 288.3/3

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

0.007+/-0.000  $\chi^2/\text{NDF}$ : 14932.8/2

0.008+/-0.000  $\chi^2/\text{NDF}$ : 288.3/3

# yield\_bpm1i04Y\_mean vs slug



Right In: 1.770+/-0.000  $\chi^2/\text{NDF}$ : 4613230.0/2

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

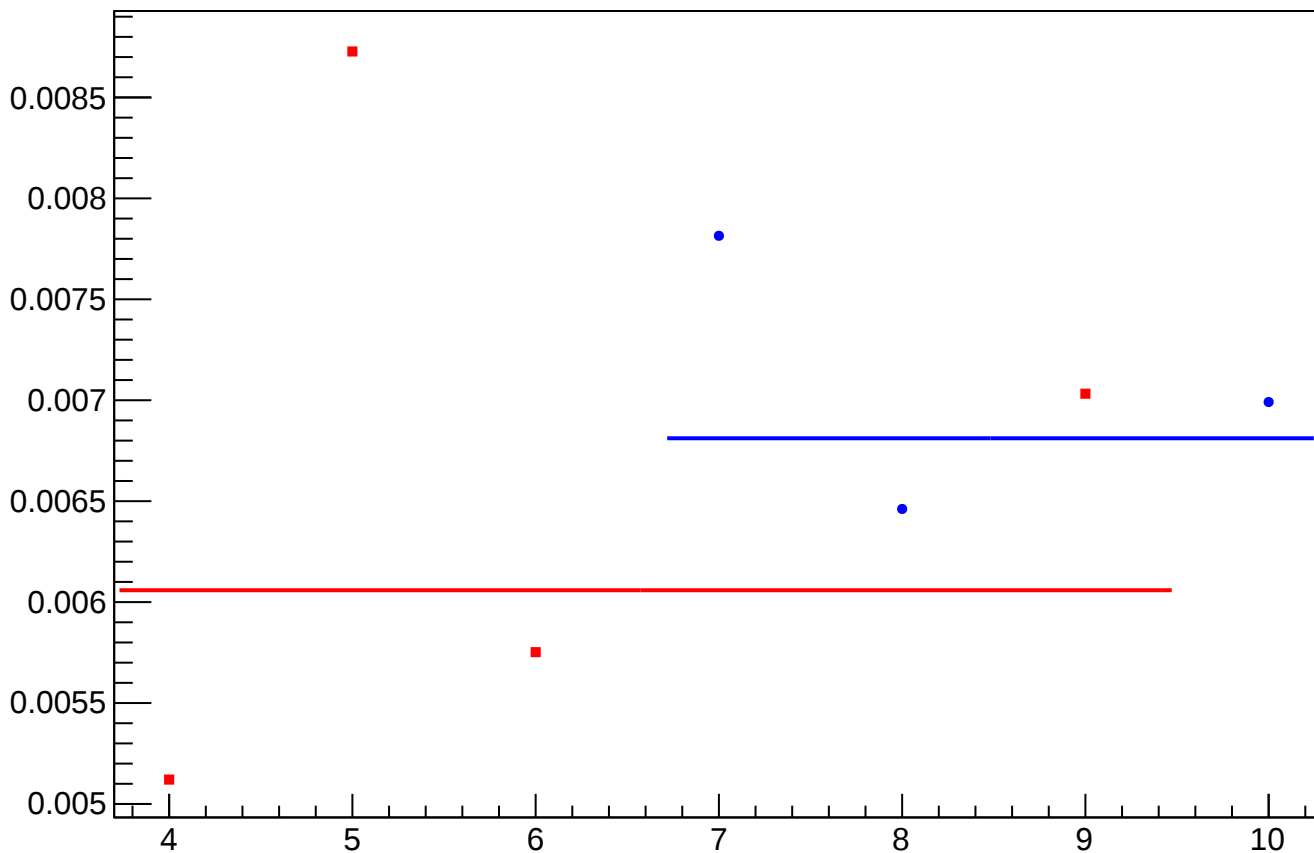
Right Out: 1.788+/-0.000  $\chi^2/\text{NDF}$ : 11490934.1/3

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

1.770+/-0.000  $\chi^2/\text{NDF}$ : 4613230.0/2

1.788+/-0.000  $\chi^2/\text{NDF}$ : 11490934.1/3

# yield\_bpm1i04Y\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 14430.6/2

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

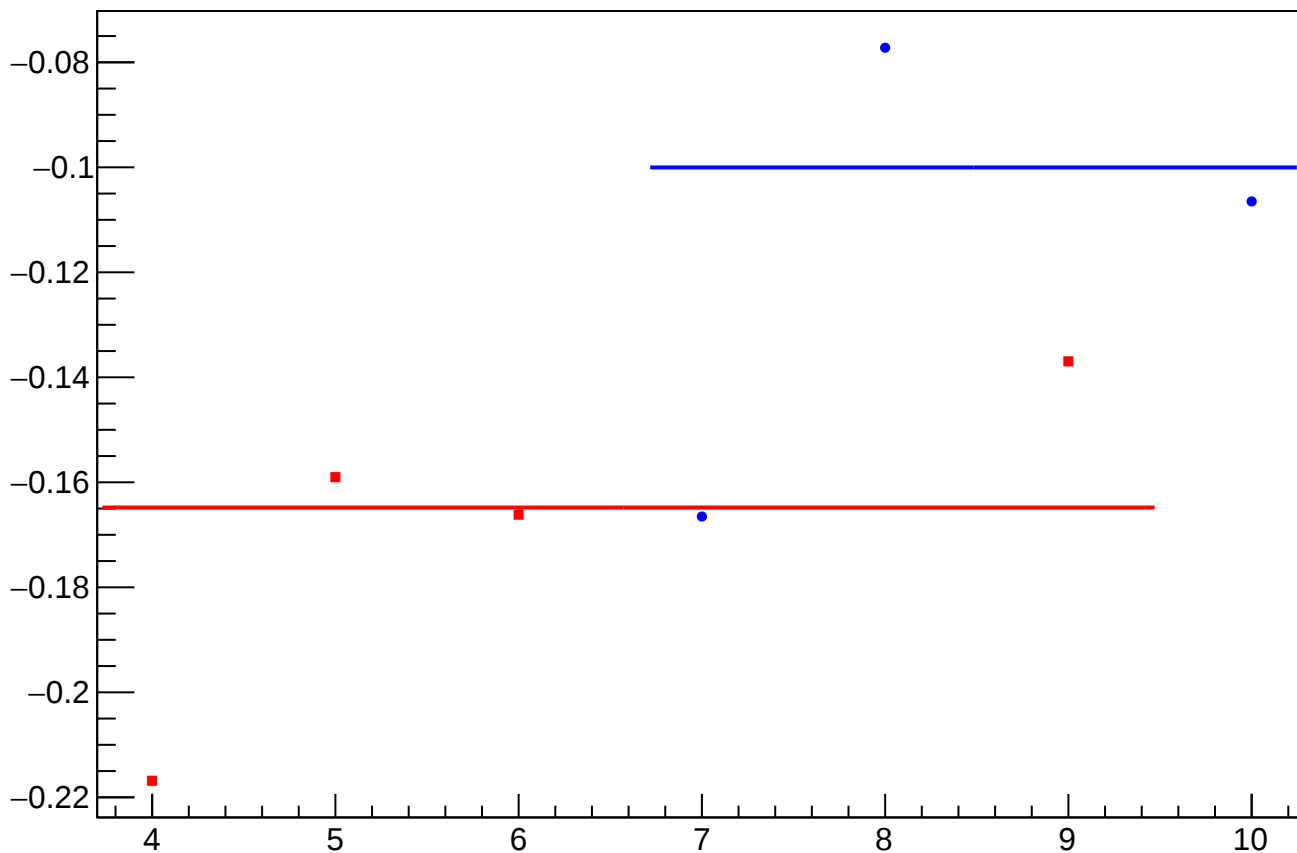
Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 75098.6/3

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

0.007+/-0.000  $\chi^2/\text{NDF}$ : 14430.6/2

0.006+/-0.000  $\chi^2/\text{NDF}$ : 75098.6/3

yield\_bpm0l01X\_mean vs slug



Right In: -0.100+/-0.000  $\chi^2/\text{NDF}$ : 22954642.7/2

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

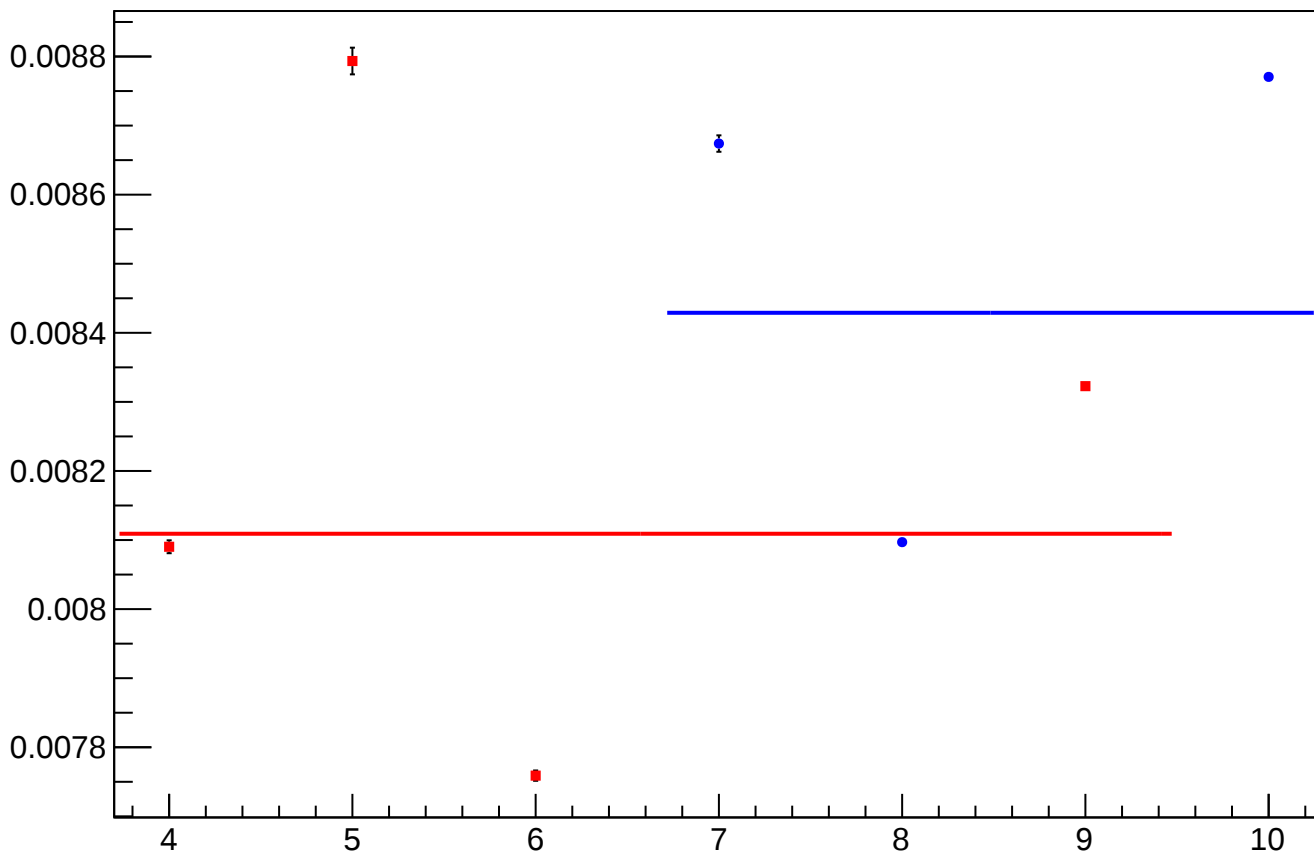
Right Out: -0.165+/-0.000  $\chi^2/\text{NDF}$ : 24050201.7/3

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

-0.100+/-0.000  $\chi^2/\text{NDF}$ : 22954642.7/2

-0.165+/-0.000  $\chi^2/\text{NDF}$ : 24050201.7/3

# yield\_bpm0l01X\_rms vs slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 5755.9/2

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

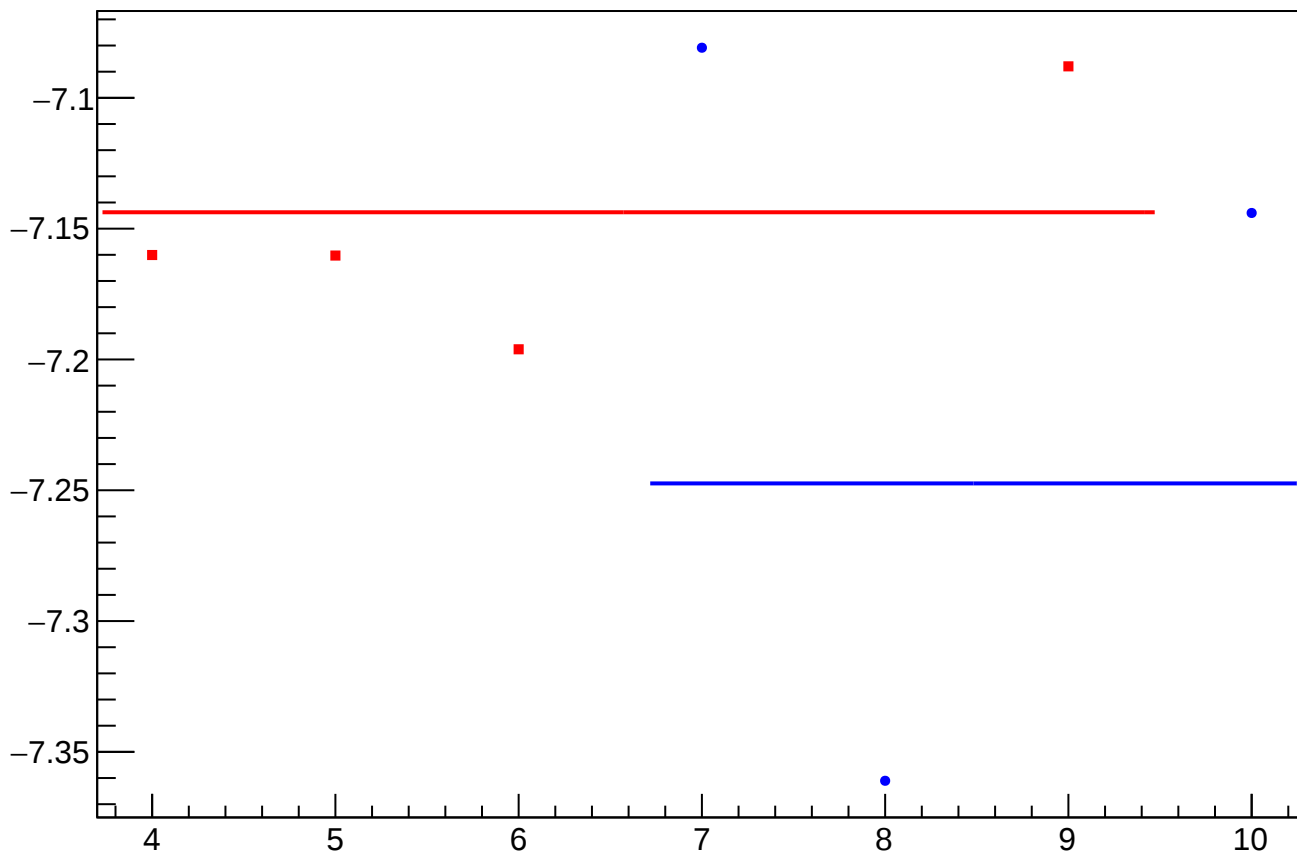
Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 4447.1/3

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

0.008+/-0.000  $\chi^2/\text{NDF}$ : 5755.9/2

0.008+/-0.000  $\chi^2/\text{NDF}$ : 4447.1/3

# yield\_bpm0l01Y\_mean vs slug



Right In: -7.247+/-0.000  $\chi^2/\text{NDF}$ : 376144099.5/2

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

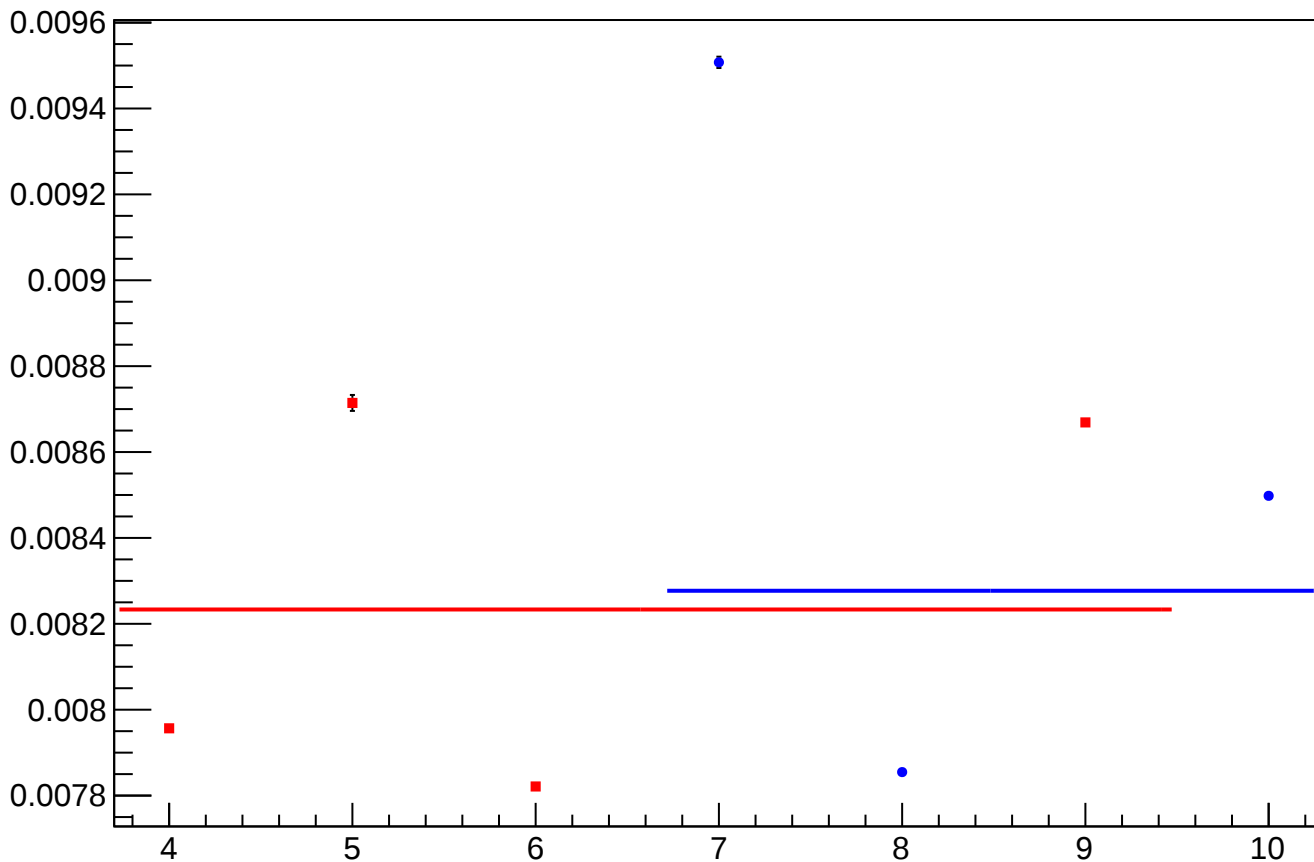
Right Out: -7.144+/-0.000  $\chi^2/\text{NDF}$ : 55911962.2/3

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

-7.247+/-0.000  $\chi^2/\text{NDF}$ : 376144099.5/2

-7.144+/-0.000  $\chi^2/\text{NDF}$ : 55911962.2/3

# yield\_bpm0l01Y\_rms vs slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 14754.6/2

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

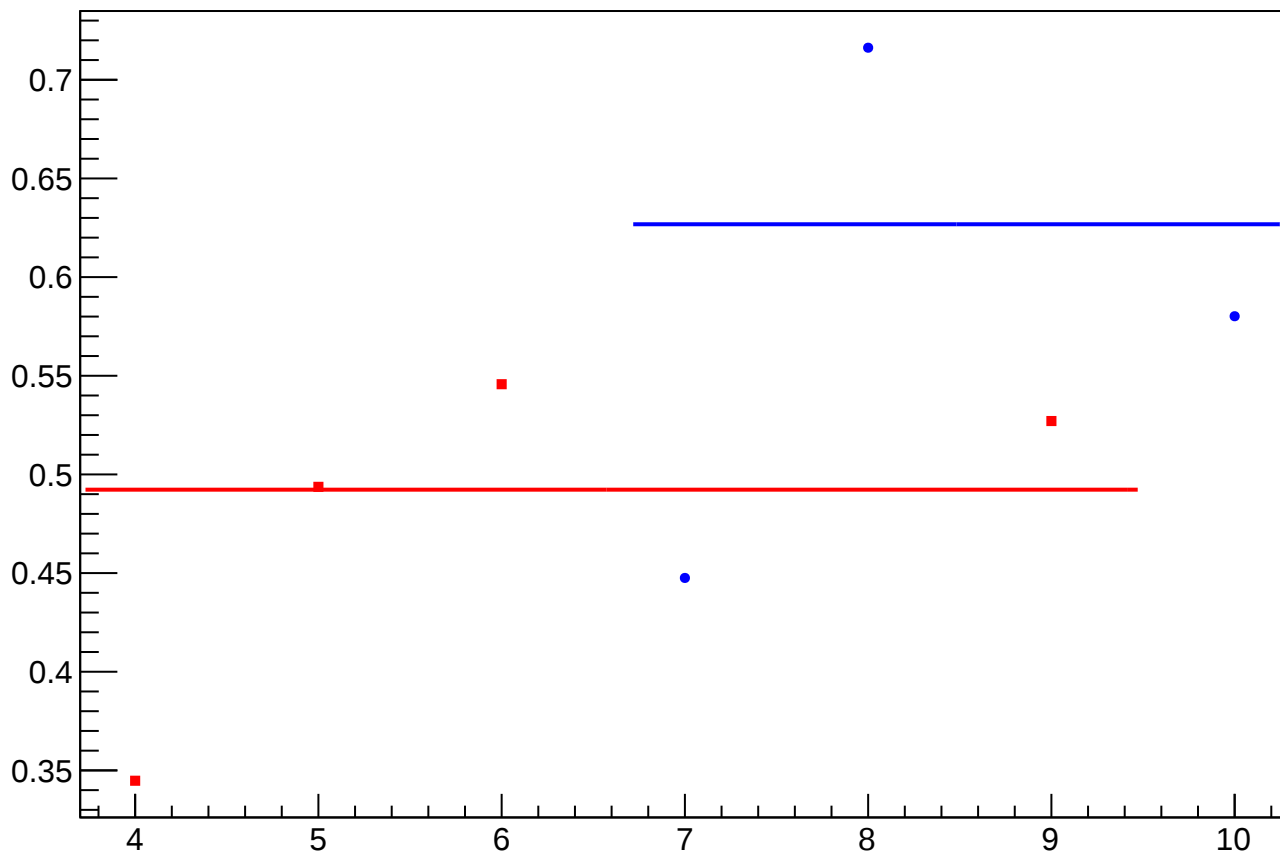
Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 8179.9/3

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

0.008+/-0.000  $\chi^2/\text{NDF}$ : 14754.6/2

0.008+/-0.000  $\chi^2/\text{NDF}$ : 8179.9/3

# yield\_bpm0l02X\_mean vs slug



Right In: 0.627+/-0.000  $\chi^2/\text{NDF}$ : 41347234.0/2

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

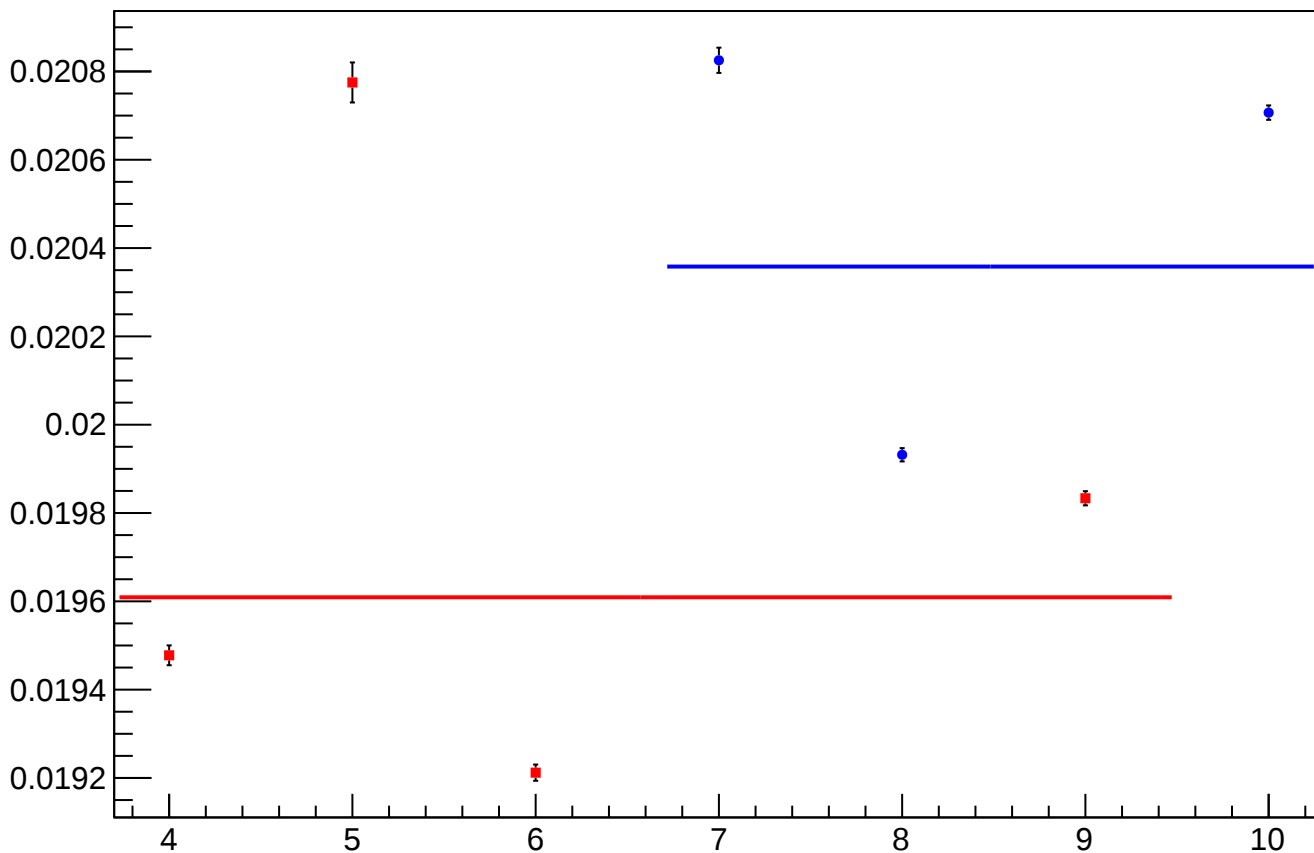
Right Out: 0.492+/-0.000  $\chi^2/\text{NDF}$ : 28139744.0/3

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

0.627+/-0.000  $\chi^2/\text{NDF}$ : 41347234.0/2

0.492+/-0.000  $\chi^2/\text{NDF}$ : 28139744.0/3

# yield\_bpm0l02X\_rms vs slug



Right In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1521.1/2

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

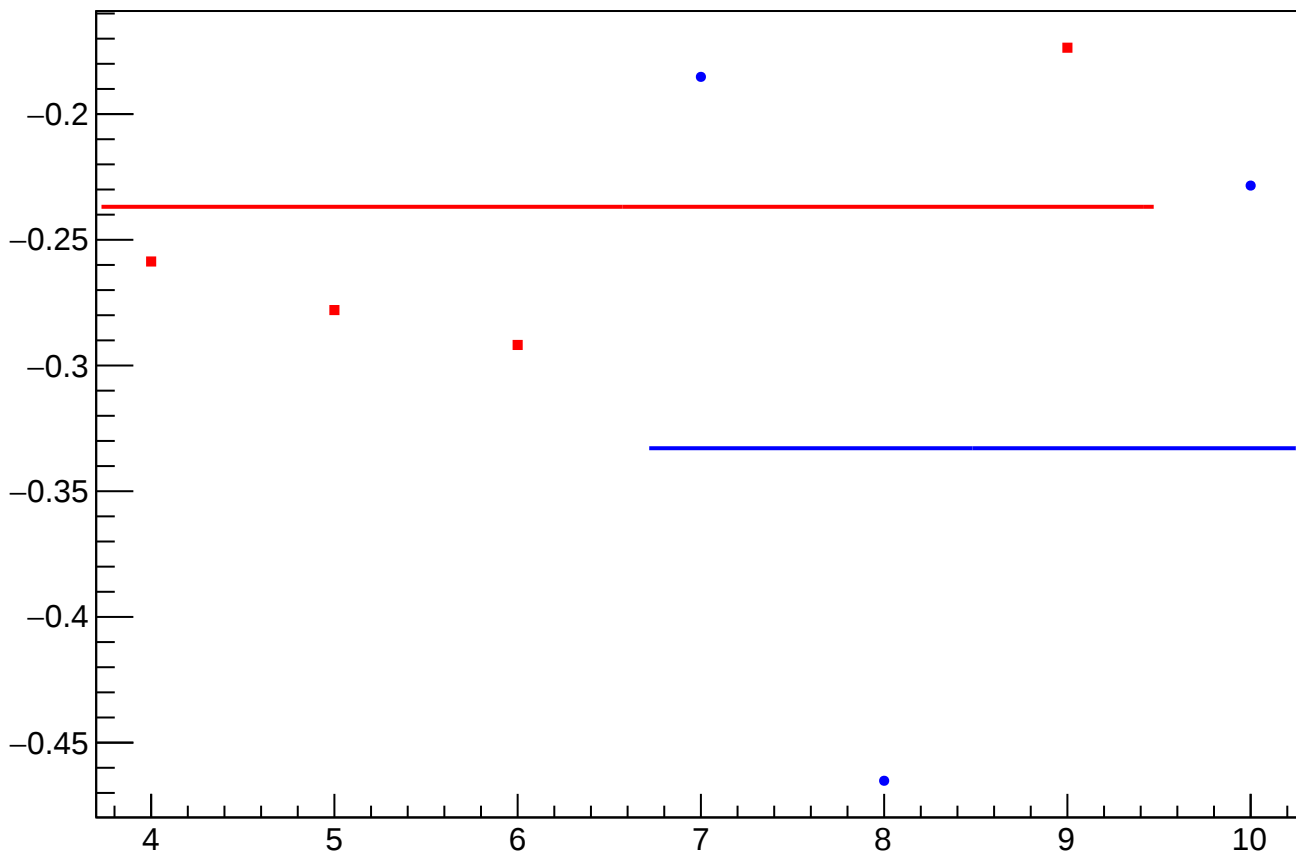
Right Out: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1355.1/3

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

0.020+/-0.000  $\chi^2/\text{NDF}$ : 1521.1/2

0.020+/-0.000  $\chi^2/\text{NDF}$ : 1355.1/3

yield\_bpm0l02Y\_mean vs slug



Right In: -0.333+/-0.000  $\chi^2/\text{NDF}$ : 188851145.0/2

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

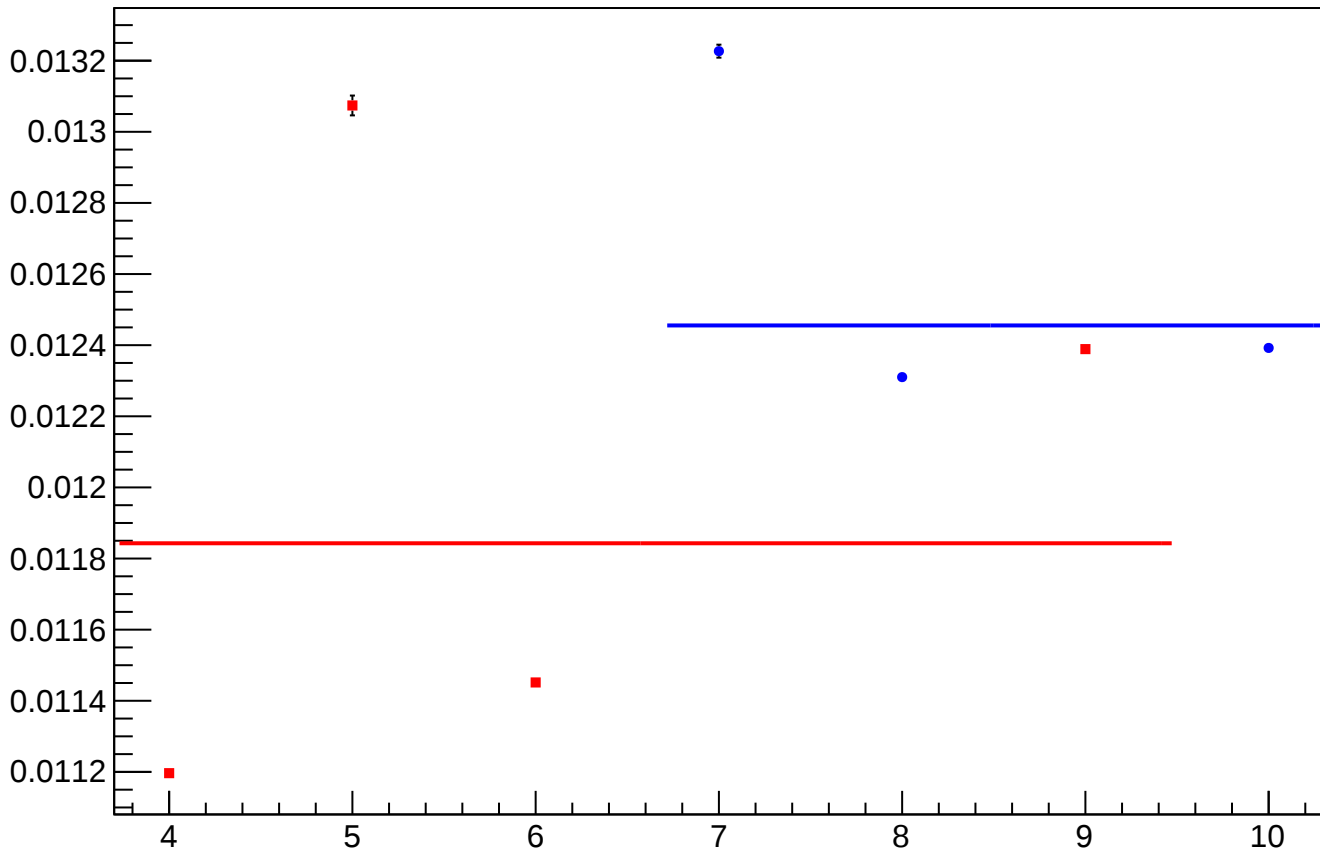
Right Out: -0.237+/-0.000  $\chi^2/\text{NDF}$ : 34281483.1/3

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

-0.333+/-0.000  $\chi^2/\text{NDF}$ : 188851145.0/2

-0.237+/-0.000  $\chi^2/\text{NDF}$ : 34281483.1/3

# yield\_bpm0l02Y\_rms vs slug



Right In: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 2066.5/2

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

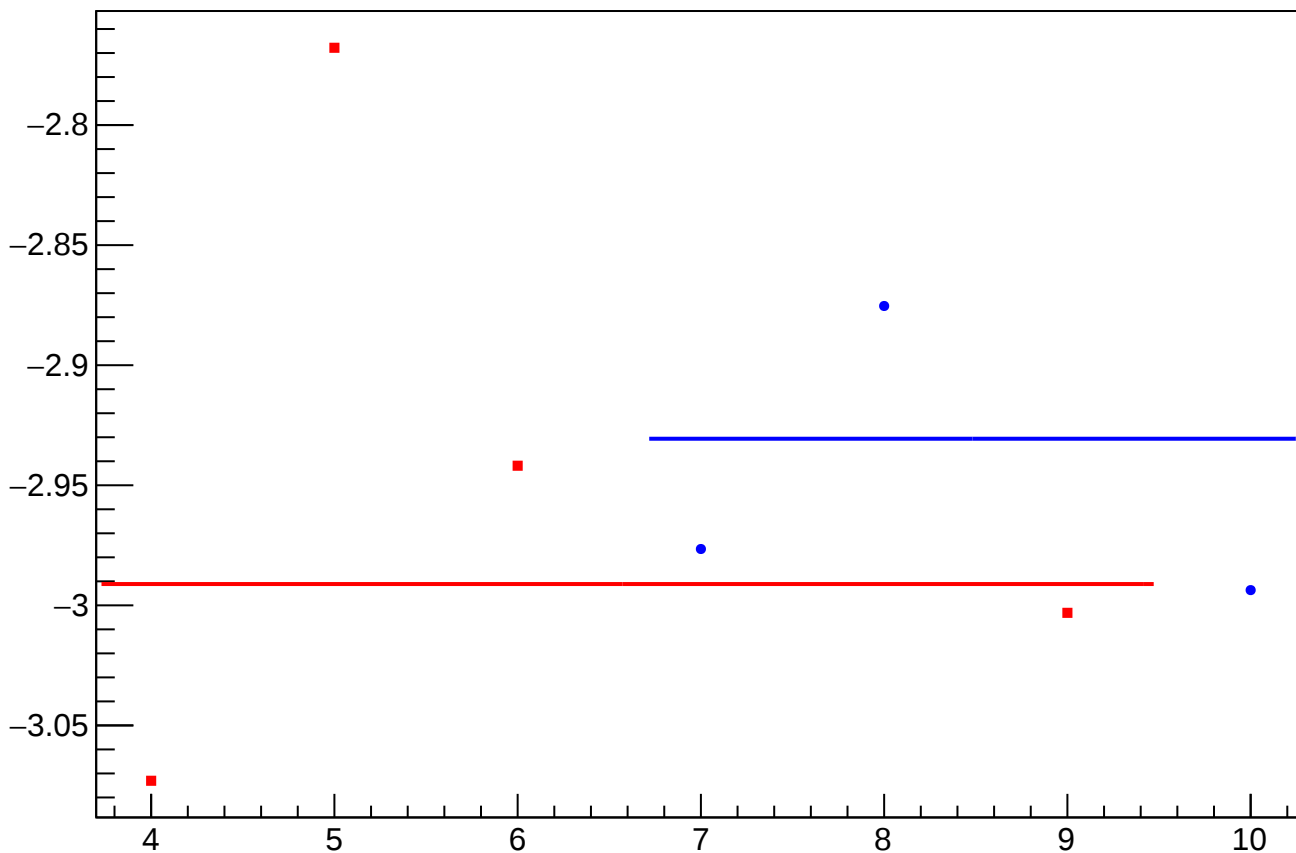
Right Out: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 8570.6/3

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

0.012 $\pm$ 0.000  $\chi^2$ /NDF: 2066.5/2

0.012 $\pm$ 0.000  $\chi^2$ /NDF: 8570.6/3

# yield\_bpm0l03X\_mean vs slug



Right In: -2.931+/-0.000  $\chi^2/\text{NDF}$ : 69572529.3/2

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

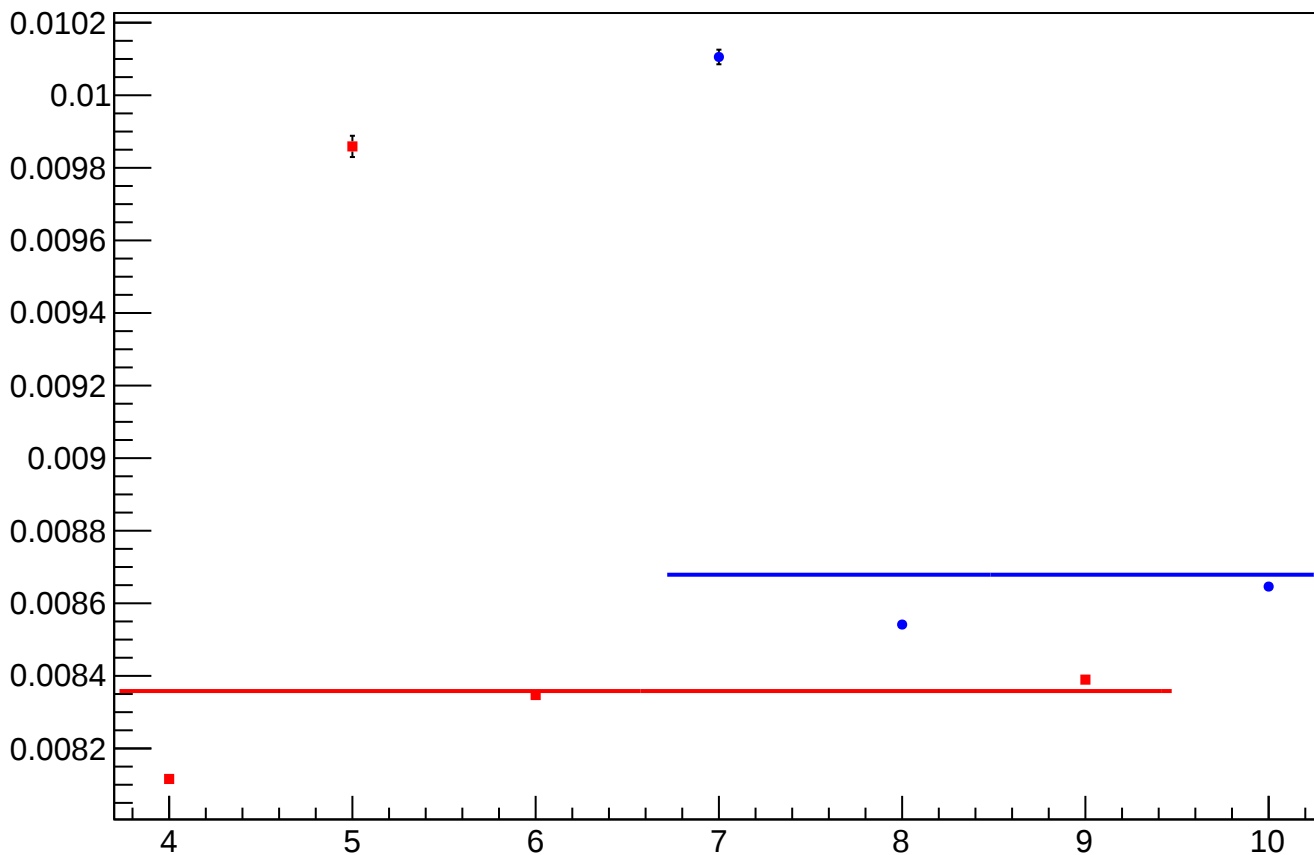
Right Out: -2.991+/-0.000  $\chi^2/\text{NDF}$ : 77431904.3/3

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

-2.931+/-0.000  $\chi^2/\text{NDF}$ : 69572529.3/2

-2.991+/-0.000  $\chi^2/\text{NDF}$ : 77431904.3/3

yield\_bpm0l03X\_rms vs slug



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 5450.7/2

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

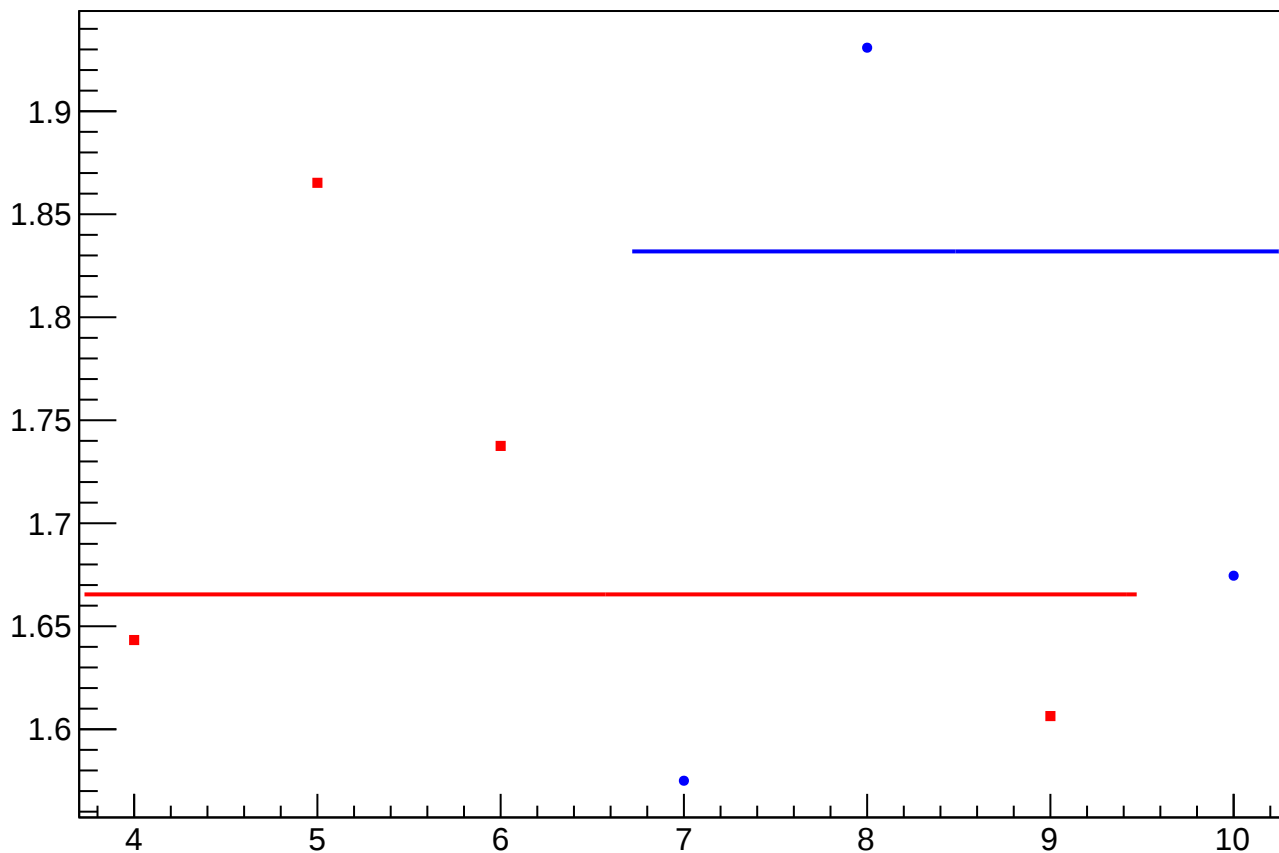
Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 3165.5/3

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

0.009+/-0.000  $\chi^2/\text{NDF}$ : 5450.7/2

0.008+/-0.000  $\chi^2/\text{NDF}$ : 3165.5/3

# yield\_bpm0l03Y\_mean vs slug



Right In: 1.832+/-0.000  $\chi^2/\text{NDF}$ : 449269122.3/2

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

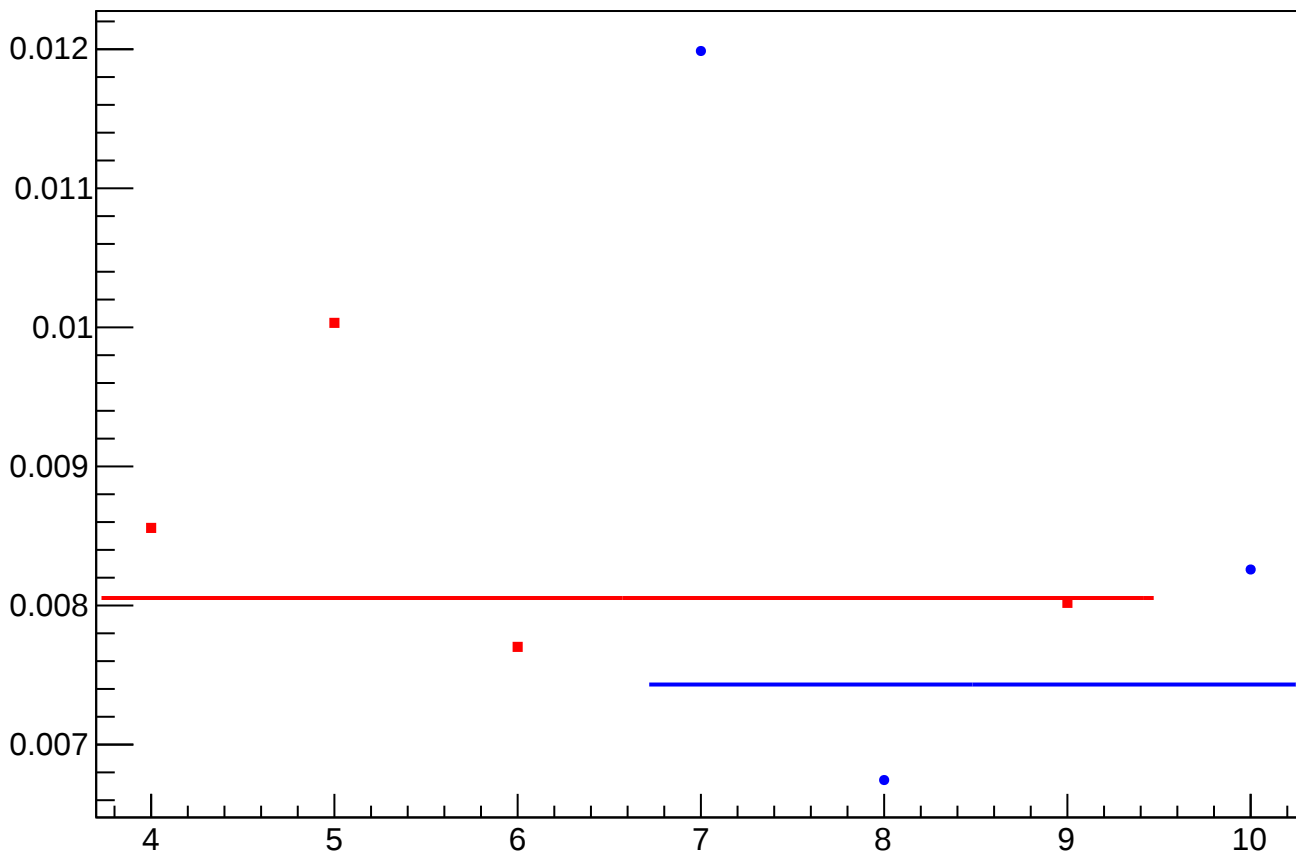
Right Out: 1.665+/-0.000  $\chi^2/\text{NDF}$ : 98067156.6/3

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

1.832+/-0.000  $\chi^2/\text{NDF}$ : 449269122.3/2

1.665+/-0.000  $\chi^2/\text{NDF}$ : 98067156.6/3

# yield\_bpm0l03Y\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 64857.8/2

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

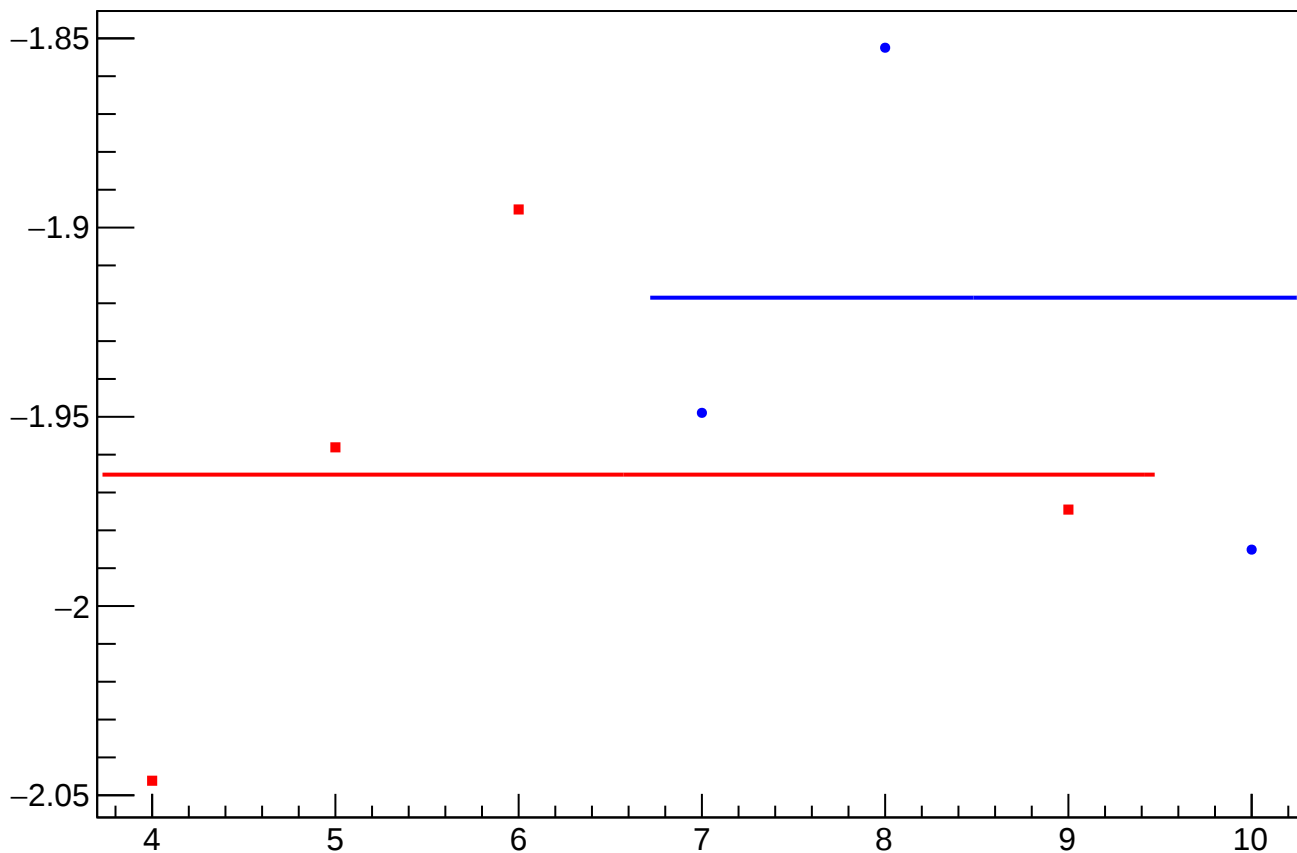
Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 8229.8/3

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

0.007+/-0.000  $\chi^2/\text{NDF}$ : 64857.8/2

0.008+/-0.000  $\chi^2/\text{NDF}$ : 8229.8/3

# yield\_bpm0l04X\_mean vs slug



Right In: -1.919+/-0.000  $\chi^2/\text{NDF}$ : 51951712.7/2

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

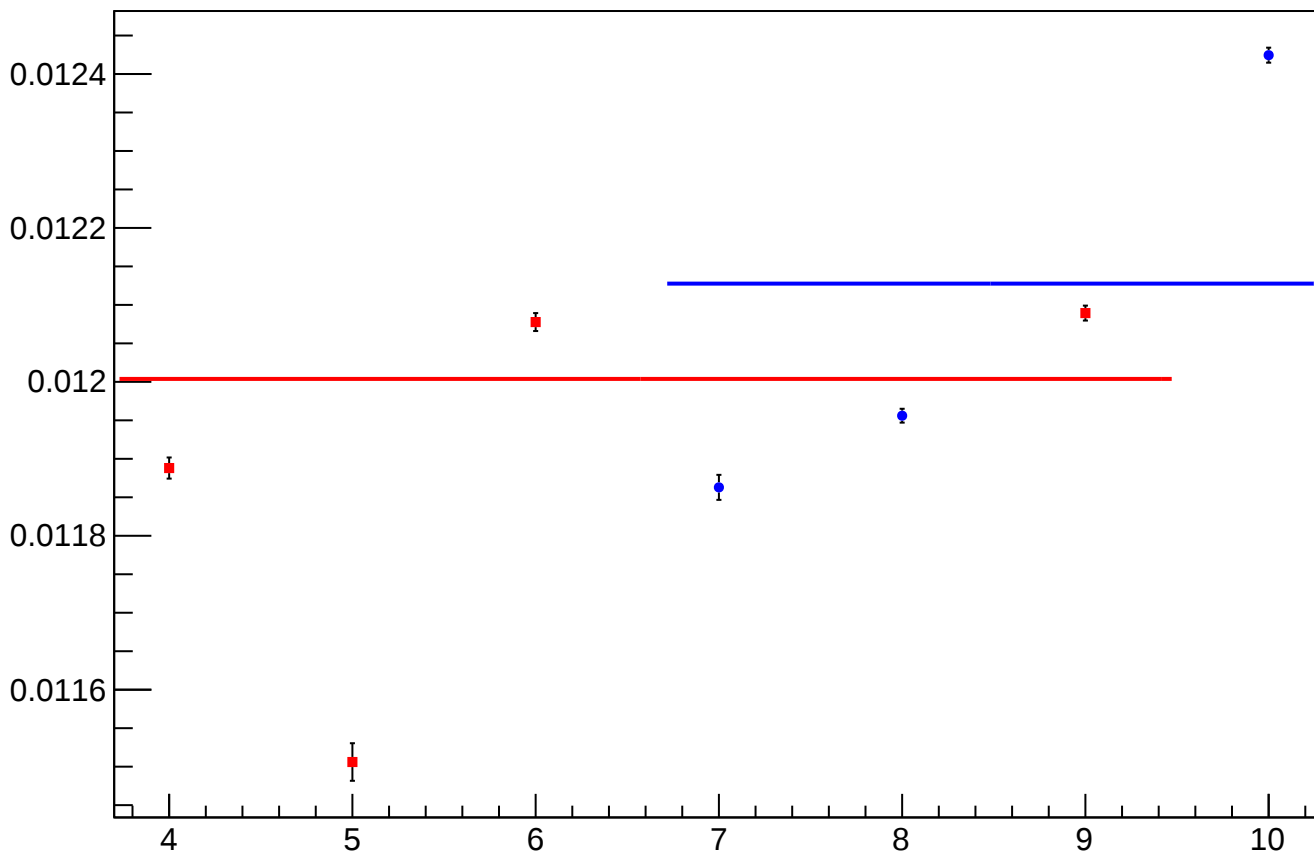
Right Out: -1.965+/-0.000  $\chi^2/\text{NDF}$ : 35910403.4/3

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

-1.919+/-0.000  $\chi^2/\text{NDF}$ : 51951712.7/2

-1.965+/-0.000  $\chi^2/\text{NDF}$ : 35910403.4/3

# yield\_bpm0l04X\_rms vs slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1554.7/2

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

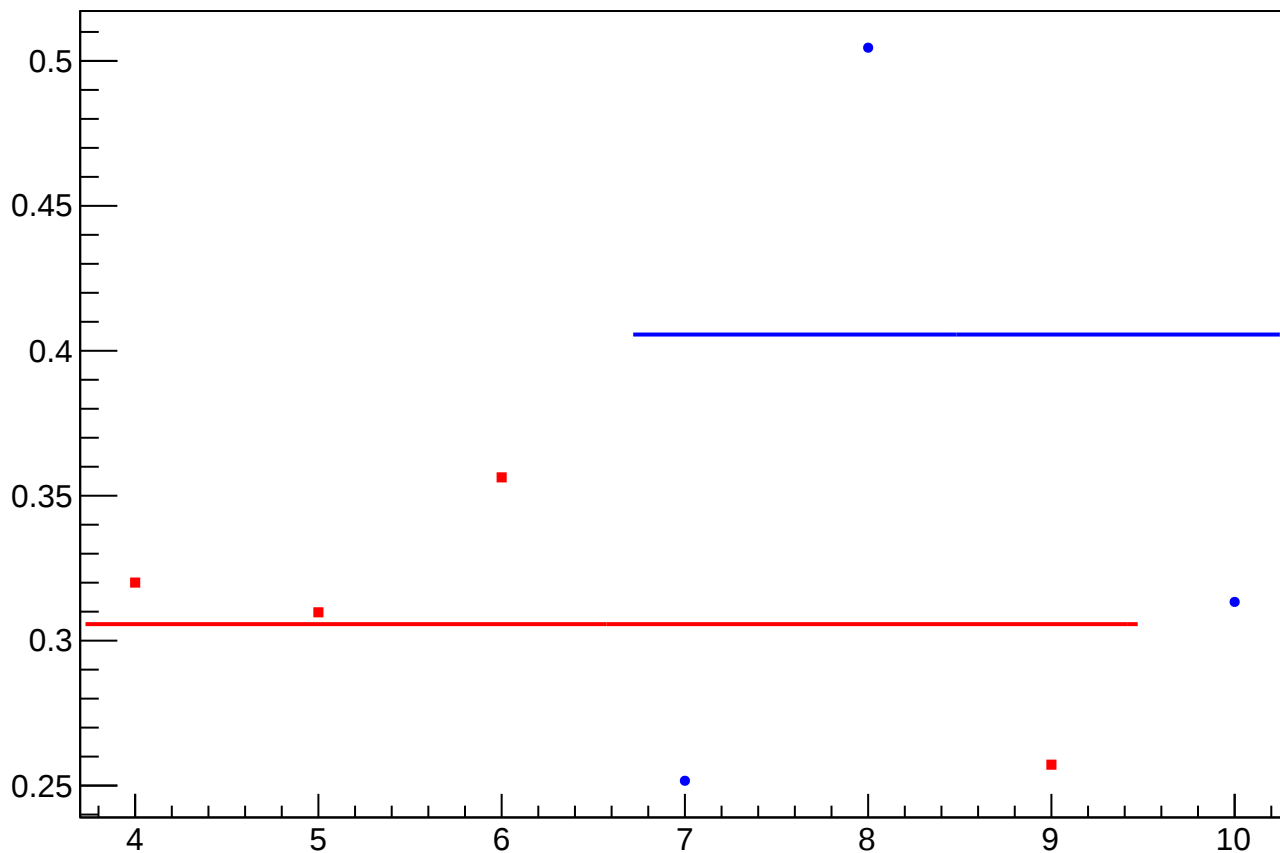
Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 604.7/3

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

0.012+/-0.000  $\chi^2/\text{NDF}$ : 1554.7/2

0.012+/-0.000  $\chi^2/\text{NDF}$ : 604.7/3

# yield\_bpm0l04Y\_mean vs slug



Right In: 0.406+/-0.000  $\chi^2/\text{NDF}$ : 434293035.6/2

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

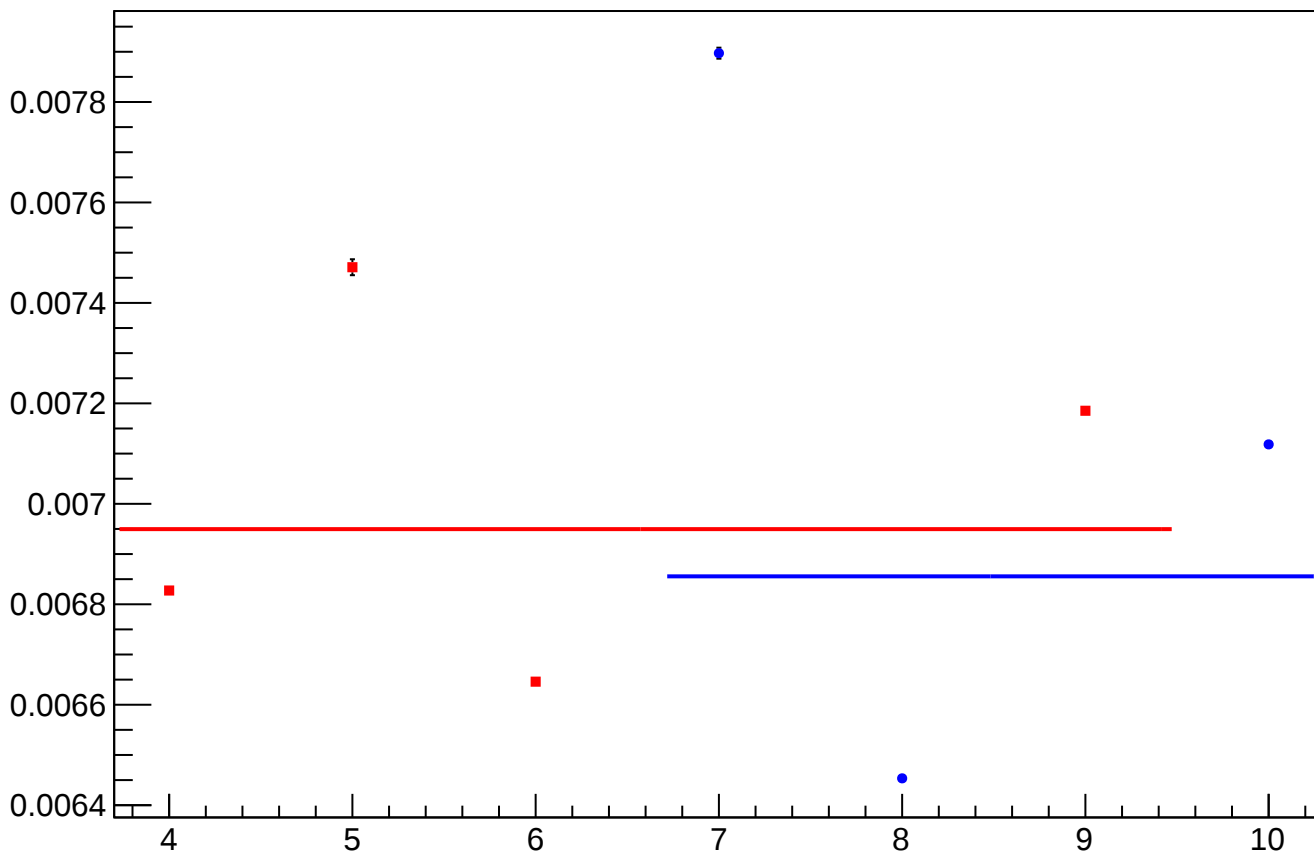
Right Out: 0.306+/-0.000  $\chi^2/\text{NDF}$ : 65392423.6/3

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

0.406+/-0.000  $\chi^2/\text{NDF}$ : 434293035.6/2

0.306+/-0.000  $\chi^2/\text{NDF}$ : 65392423.6/3

# yield\_bpm0l04Y\_rms vs slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 17908.5/2

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

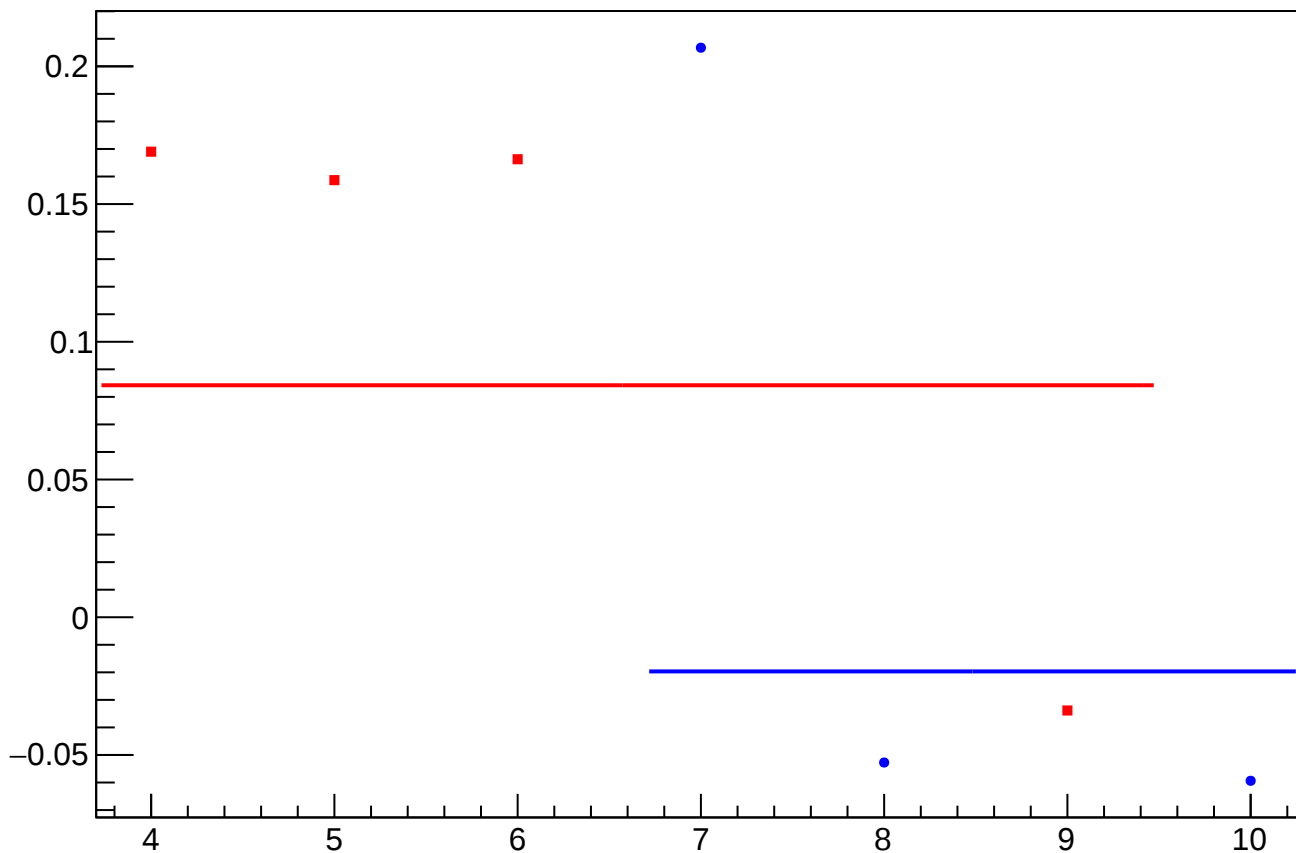
Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 5054.6/3

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

0.007+/-0.000  $\chi^2/\text{NDF}$ : 17908.5/2

0.007+/-0.000  $\chi^2/\text{NDF}$ : 5054.6/3

# yield\_bpm0l05X\_mean vs slug



Right In: -0.020+/-0.000  $\chi^2/\text{NDF}$ : 401016642.9/2

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

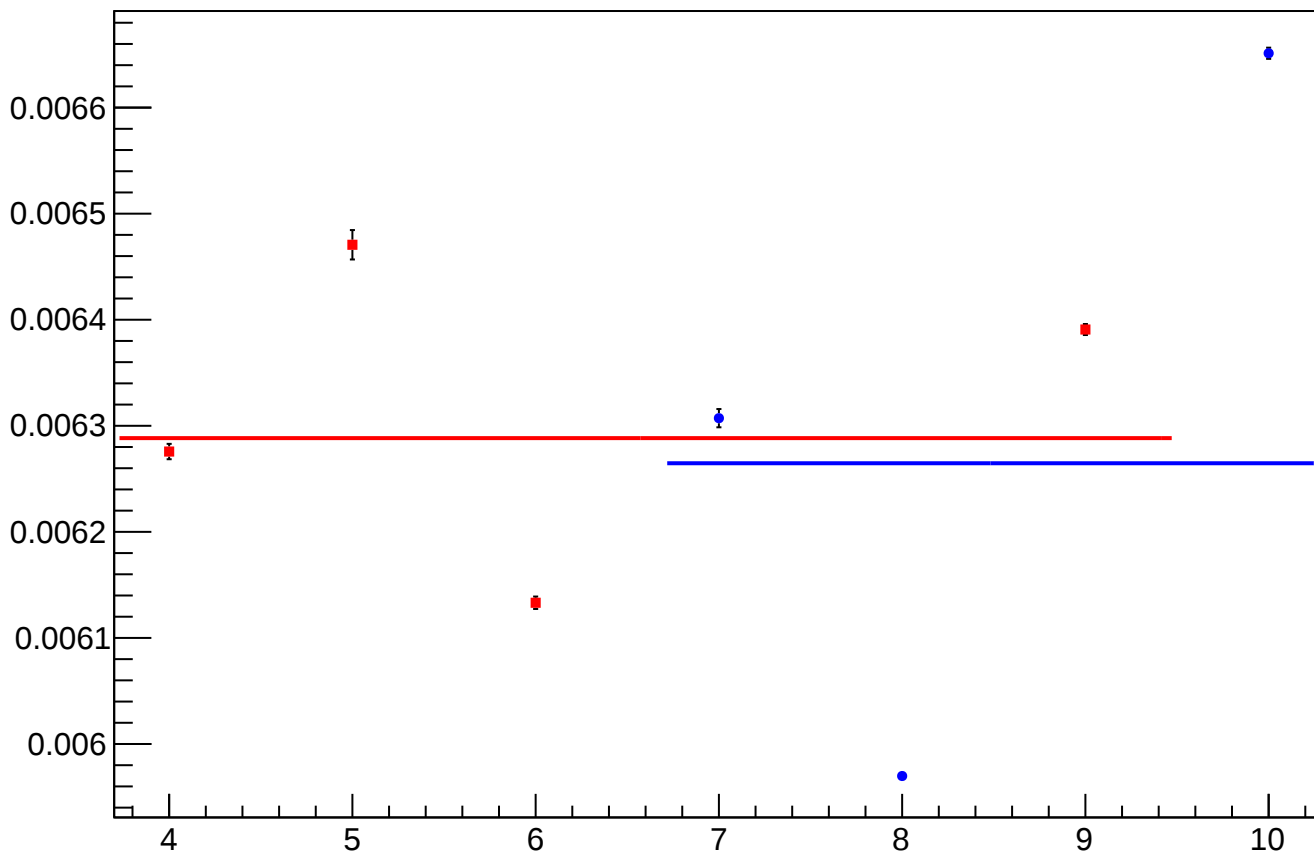
Right Out: 0.084+/-0.000  $\chi^2/\text{NDF}$ : 440112184.7/3

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

-0.020+/-0.000  $\chi^2/\text{NDF}$ : 401016642.9/2

0.084+/-0.000  $\chi^2/\text{NDF}$ : 440112184.7/3

# yield\_bpm0l05X\_rms vs slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 9674.7/2

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

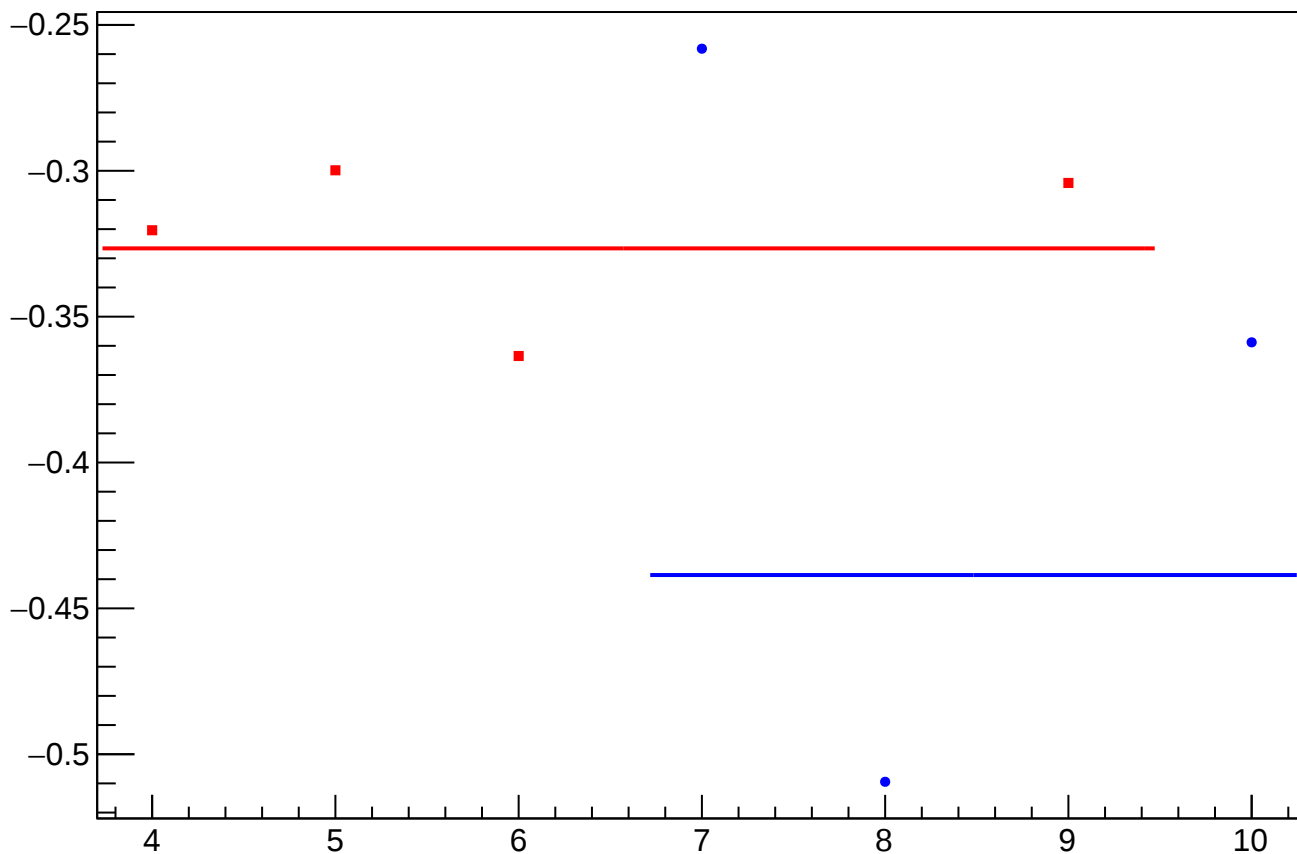
Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1266.7/3

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

0.006+/-0.000  $\chi^2/\text{NDF}$ : 9674.7/2

0.006+/-0.000  $\chi^2/\text{NDF}$ : 1266.7/3

# yield\_bpm0l05Y\_mean vs slug



Right In: -0.439+/-0.000  $\chi^2/\text{NDF}$ : 590618604.3/2

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

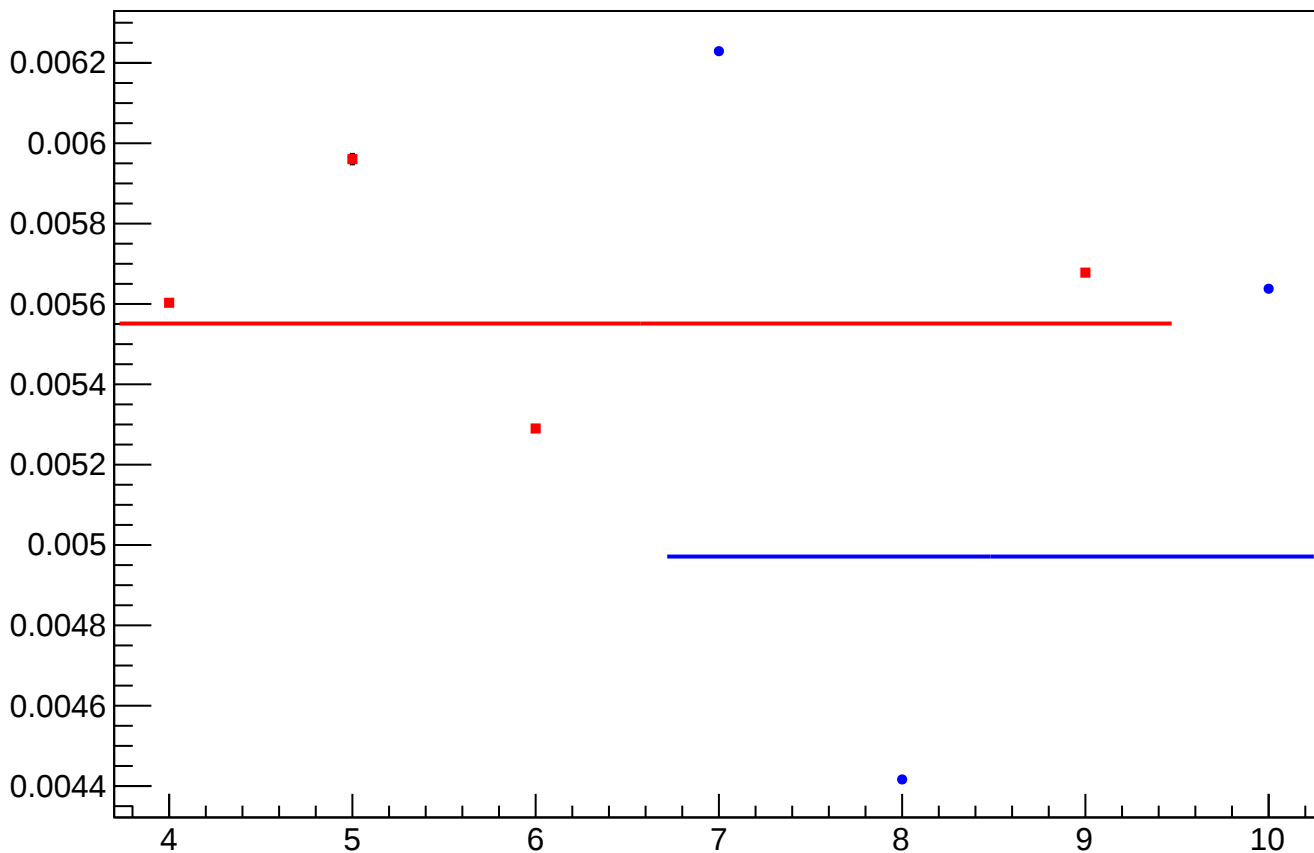
Right Out: -0.327+/-0.000  $\chi^2/\text{NDF}$ : 38655446.3/3

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

-0.439+/-0.000  $\chi^2/\text{NDF}$ : 590618604.3/2

-0.327+/-0.000  $\chi^2/\text{NDF}$ : 38655446.3/3

# yield\_bpm0l05Y\_rms vs slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 69581.8/2

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

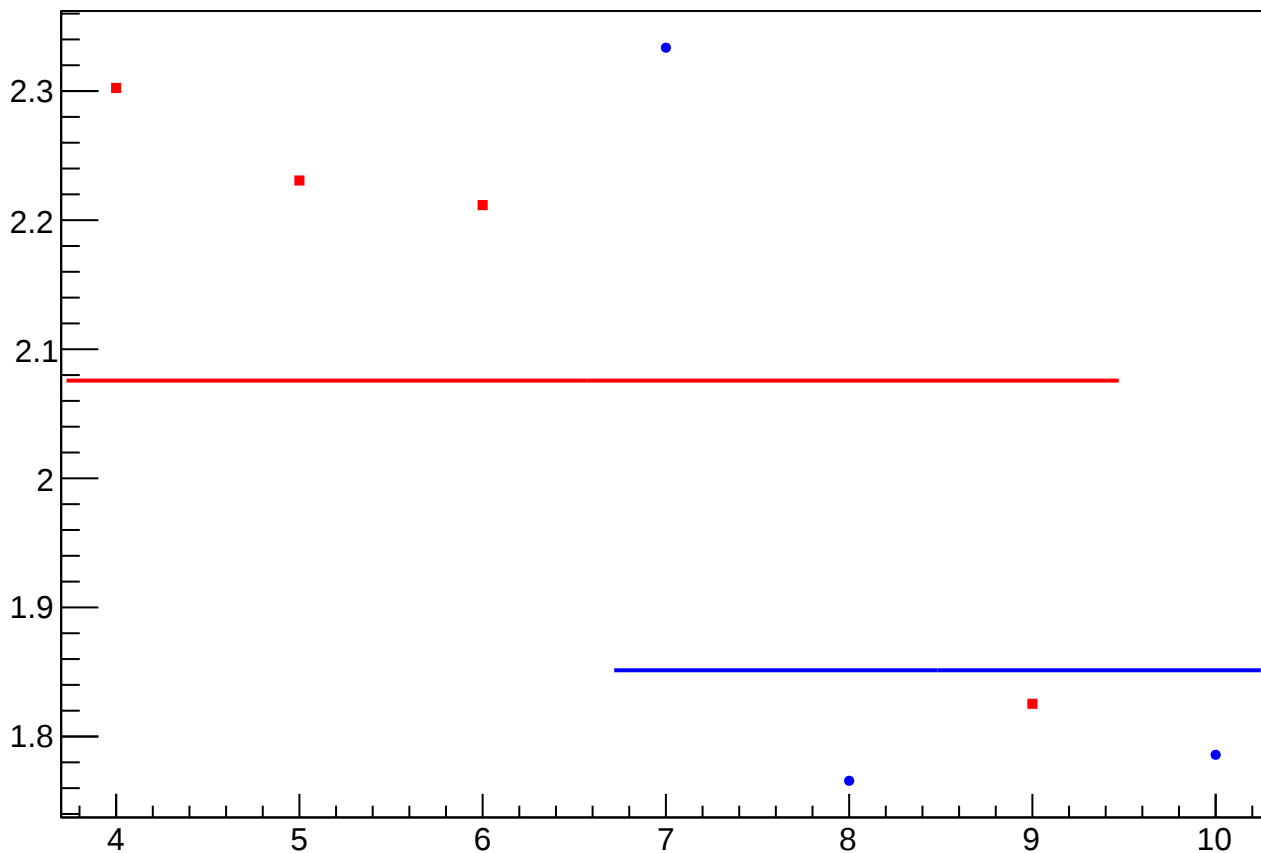
Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 4251.9/3

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

0.005+/-0.000  $\chi^2/\text{NDF}$ : 69581.8/2

0.006+/-0.000  $\chi^2/\text{NDF}$ : 4251.9/3

yield\_bpm0l06X\_mean vs slug



Right In: 1.851+/-0.000  $\chi^2/\text{NDF}$ : 581286008.6/2

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

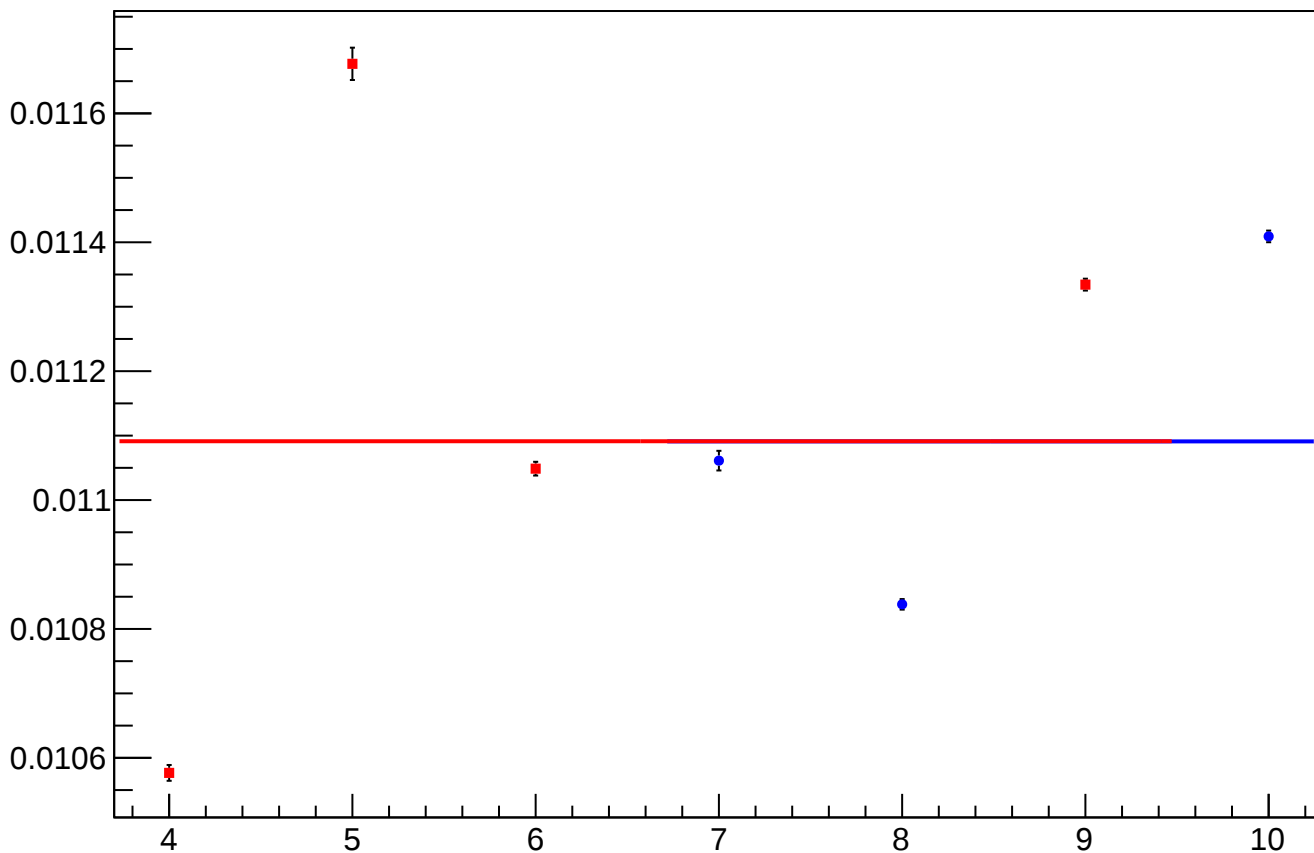
Right Out: 2.076+/-0.000  $\chi^2/\text{NDF}$ : 640105633.0/3

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

1.851+/-0.000  $\chi^2/\text{NDF}$ : 581286008.6/2

2.076+/-0.000  $\chi^2/\text{NDF}$ : 640105633.0/3

# yield\_bpm0l06X\_rms vs slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 2193.7/2

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

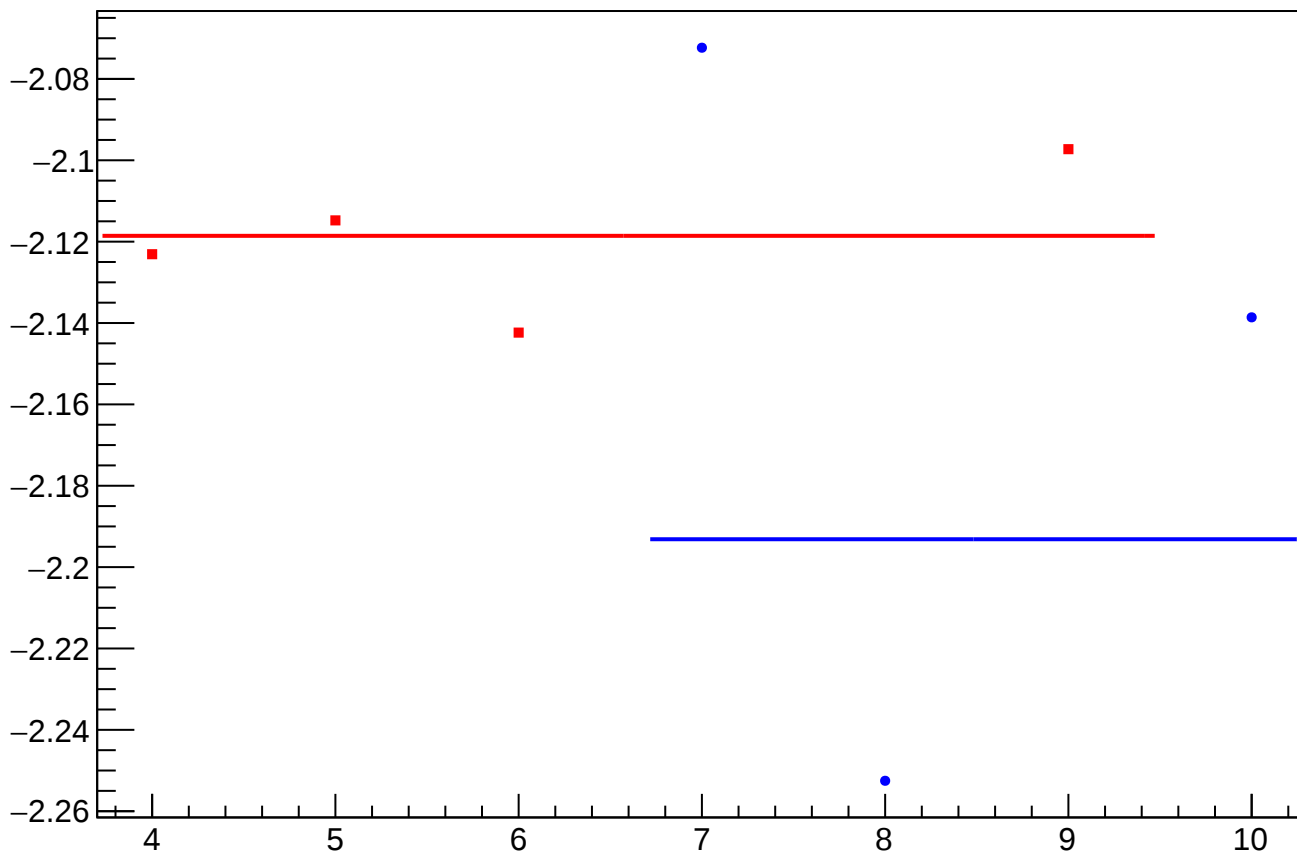
Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 3016.2/3

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

0.011+/-0.000  $\chi^2/\text{NDF}$ : 2193.7/2

0.011+/-0.000  $\chi^2/\text{NDF}$ : 3016.2/3

# yield\_bpm0l06Y\_mean vs slug



Right In: -2.193+/-0.000  $\chi^2/\text{NDF}$ : 406526742.1/2

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

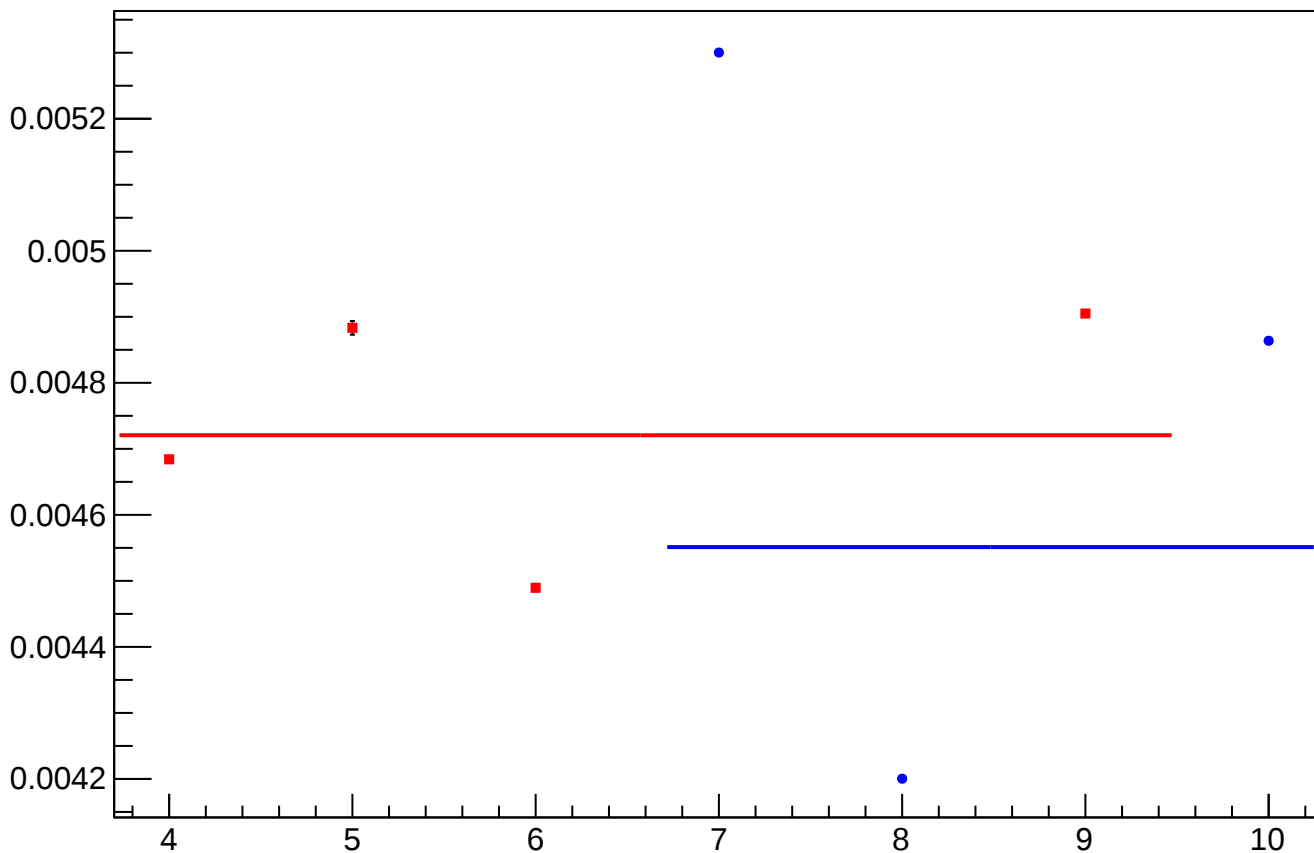
Right Out: -2.119+/-0.000  $\chi^2/\text{NDF}$ : 29025444.7/3

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

-2.193+/-0.000  $\chi^2/\text{NDF}$ : 406526742.1/2

-2.119+/-0.000  $\chi^2/\text{NDF}$ : 29025444.7/3

# yield\_bpm0l06Y\_rms vs slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 28929.1/2

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

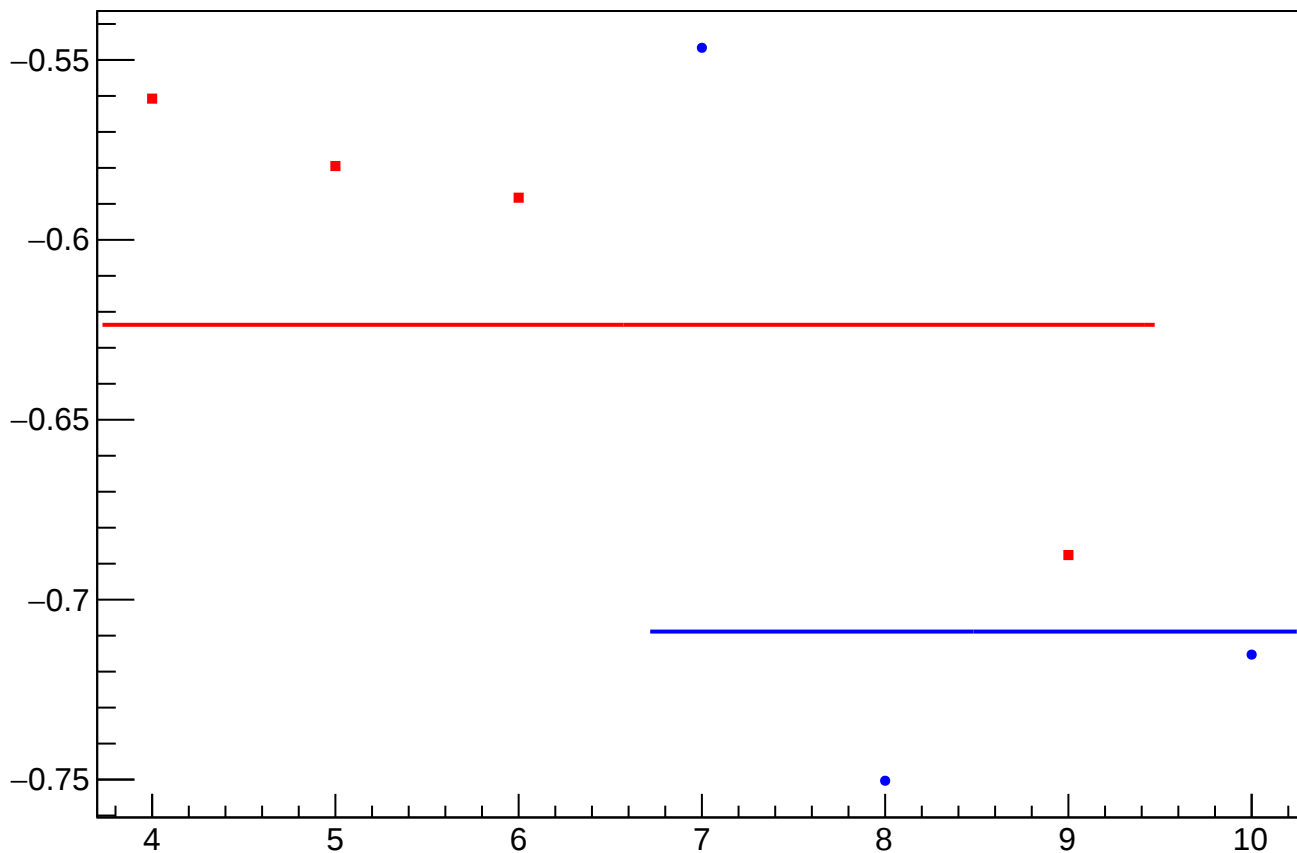
Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 5138.7/3

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

0.005+/-0.000  $\chi^2/\text{NDF}$ : 28929.1/2

0.005+/-0.000  $\chi^2/\text{NDF}$ : 5138.7/3

# yield\_bpm0l07X\_mean vs slug



Right In: -0.709+/-0.000  $\chi^2/\text{NDF}$ : 32104415.3/2

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

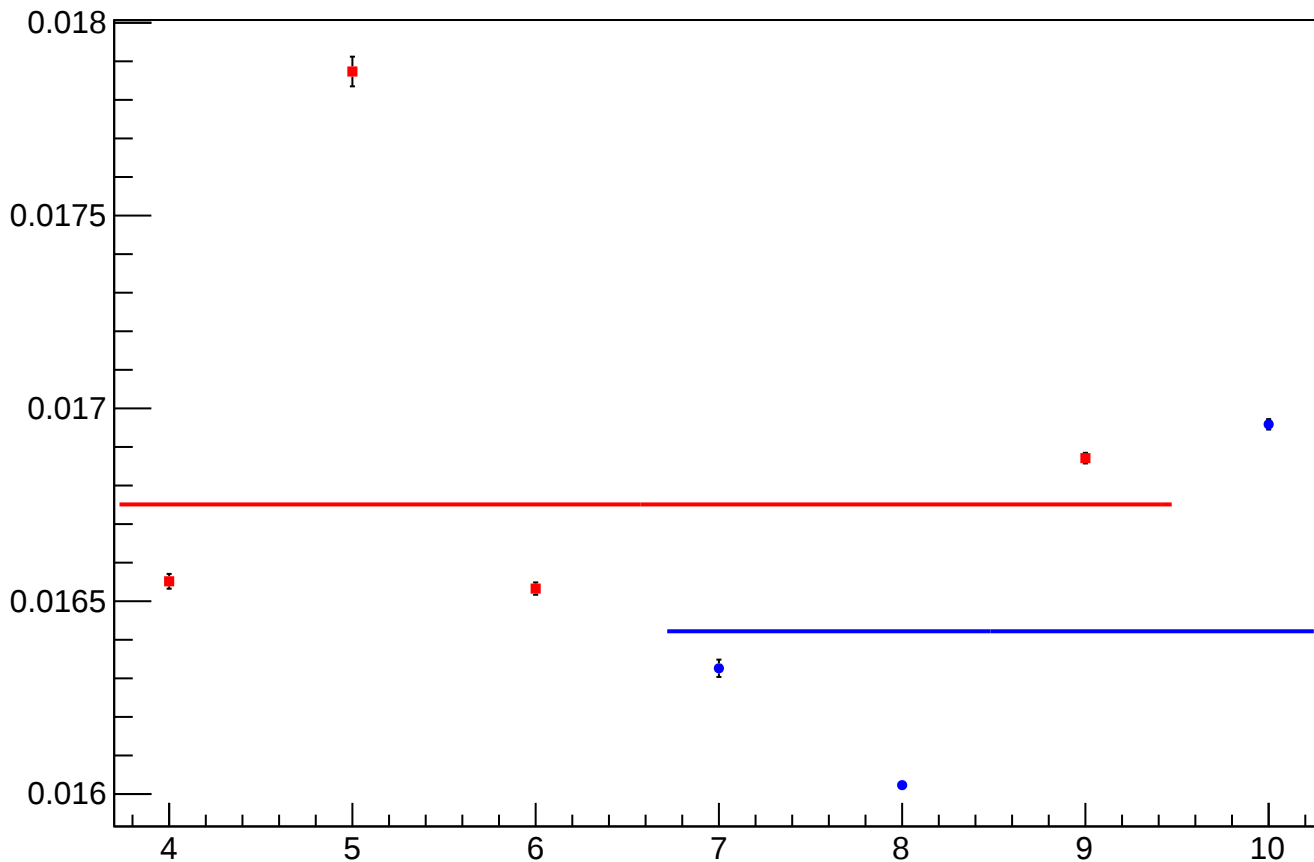
Right Out: -0.624+/-0.000  $\chi^2/\text{NDF}$ : 19324568.6/3

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

-0.709+/-0.000  $\chi^2/\text{NDF}$ : 32104415.3/2

-0.624+/-0.000  $\chi^2/\text{NDF}$ : 19324568.6/3

# yield\_bpm0l07X\_rms vs slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 2696.6/2

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

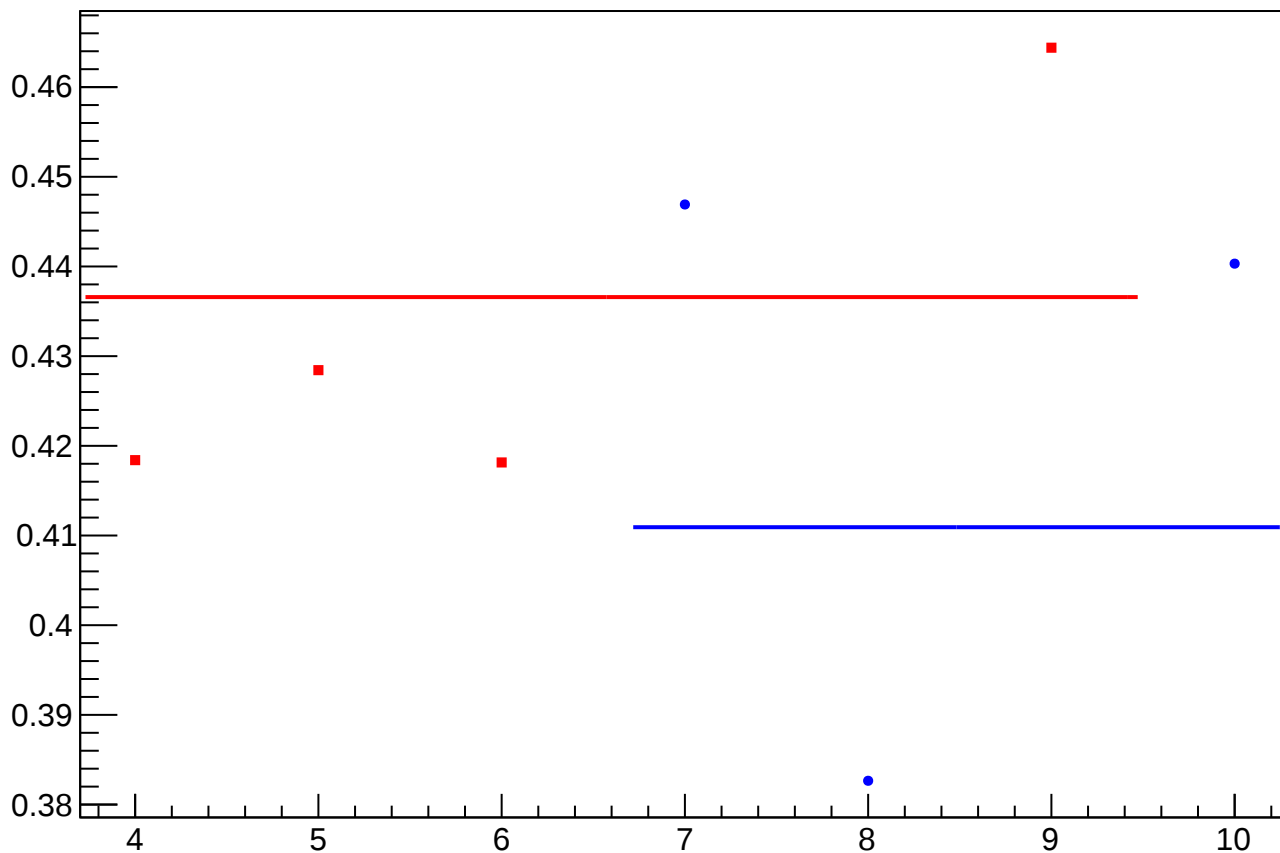
Right Out: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 1222.2/3

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

0.016+/-0.000  $\chi^2/\text{NDF}$ : 2696.6/2

0.017+/-0.000  $\chi^2/\text{NDF}$ : 1222.2/3

# yield\_bpm0l07Y\_mean vs slug



Right In: 0.411+/-0.000  $\chi^2/\text{NDF}$ : 194784967.4/2

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

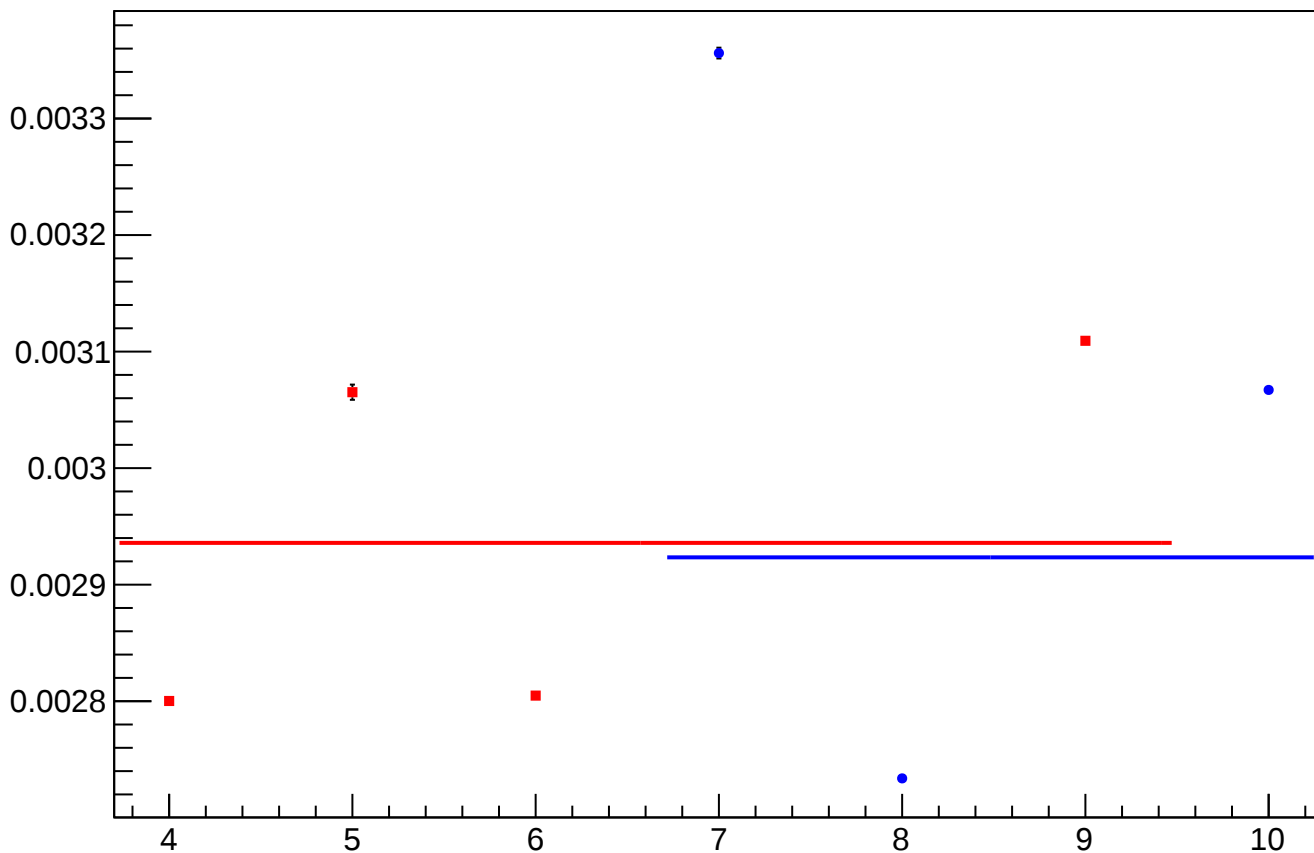
Right Out: 0.437+/-0.000  $\chi^2/\text{NDF}$ : 99345657.5/3

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

0.411+/-0.000  $\chi^2/\text{NDF}$ : 194784967.4/2

0.437+/-0.000  $\chi^2/\text{NDF}$ : 99345657.5/3

# yield\_bpm0l07Y\_rms vs slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 20494.1/2

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

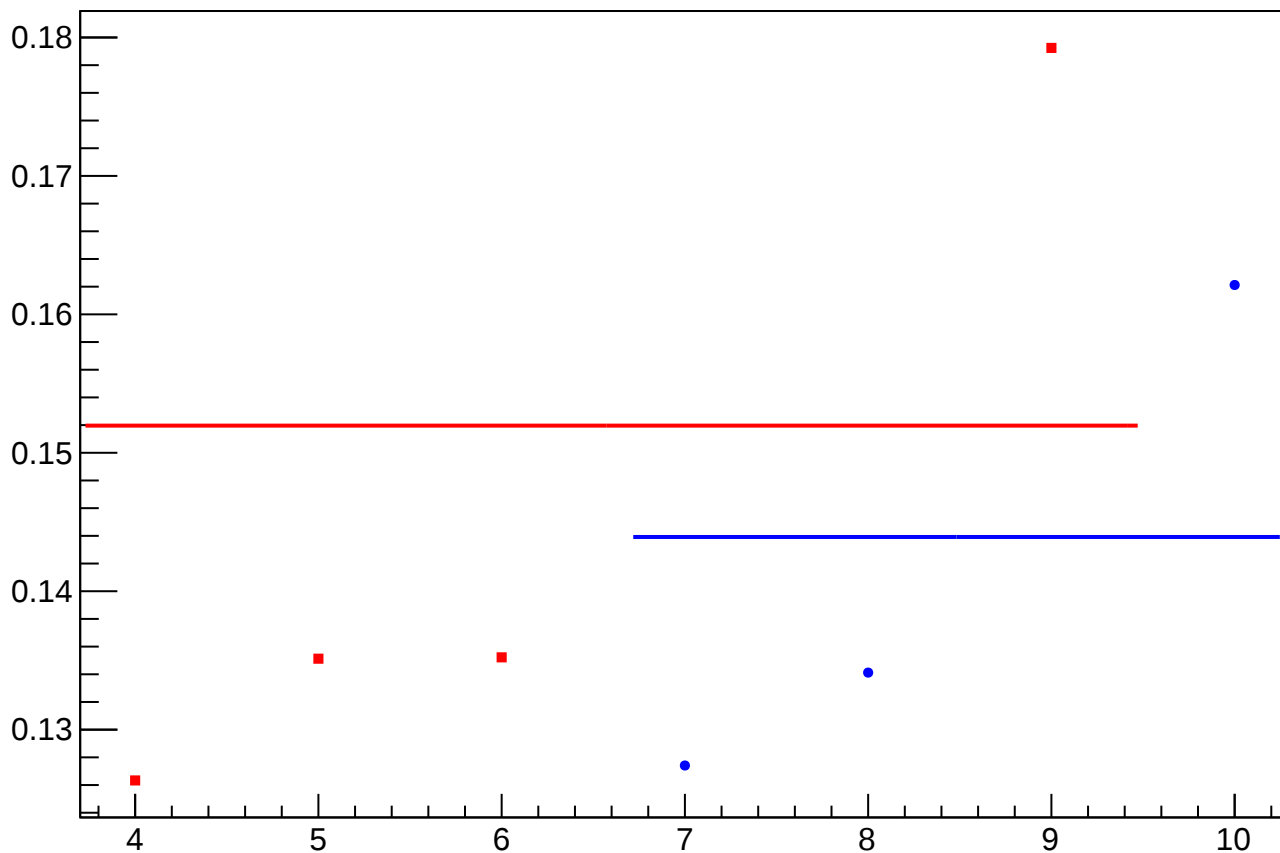
Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 9105.5/3

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

0.003+/-0.000  $\chi^2/\text{NDF}$ : 20494.1/2

0.003+/-0.000  $\chi^2/\text{NDF}$ : 9105.5/3

# yield\_bpm0l08X\_mean vs slug



Right In: 0.144+/-0.000  $\chi^2/\text{NDF}$ : 1750703.1/2

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

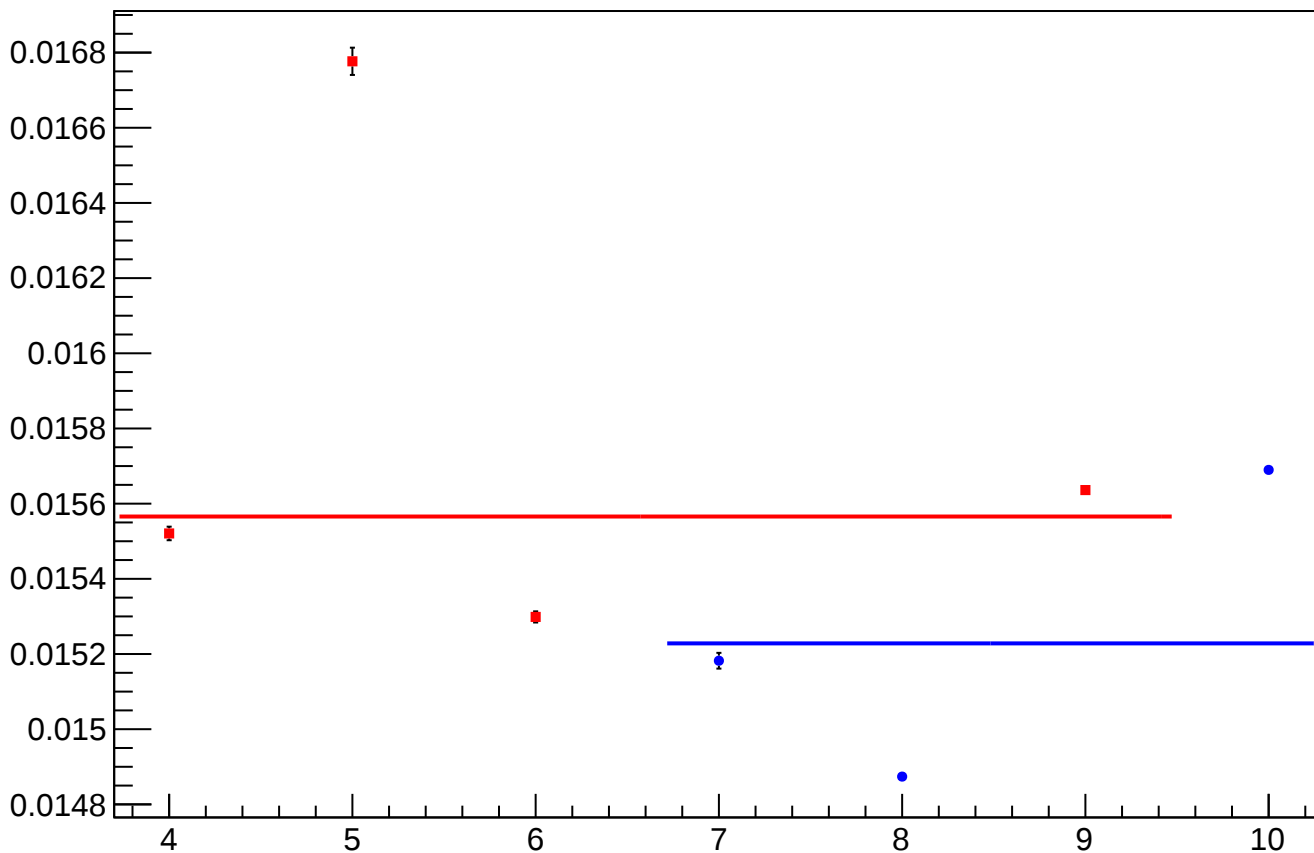
Right Out: 0.152+/-0.000  $\chi^2/\text{NDF}$ : 4039144.4/3

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

0.144+/-0.000  $\chi^2/\text{NDF}$ : 1750703.1/2

0.152+/-0.000  $\chi^2/\text{NDF}$ : 4039144.4/3

# yield\_bpm0l08X\_rms vs slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 2368.4/2

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

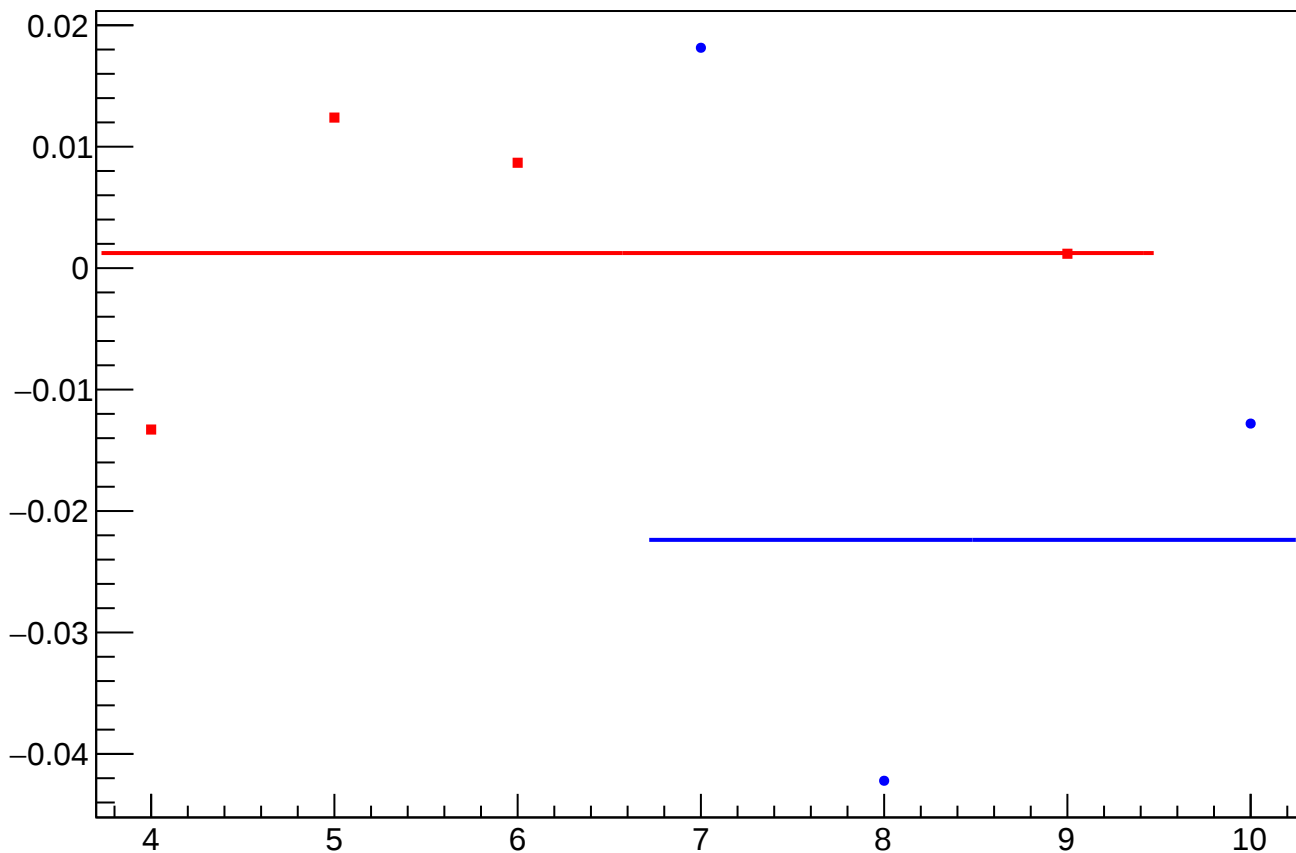
Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 1475.6/3

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

0.015+/-0.000  $\chi^2/\text{NDF}$ : 2368.4/2

0.016+/-0.000  $\chi^2/\text{NDF}$ : 1475.6/3

# yield\_bpm0l08Y\_mean vs slug



Right In: -0.022+/-0.000  $\chi^2/\text{NDF}$ : 63385668.2/2

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

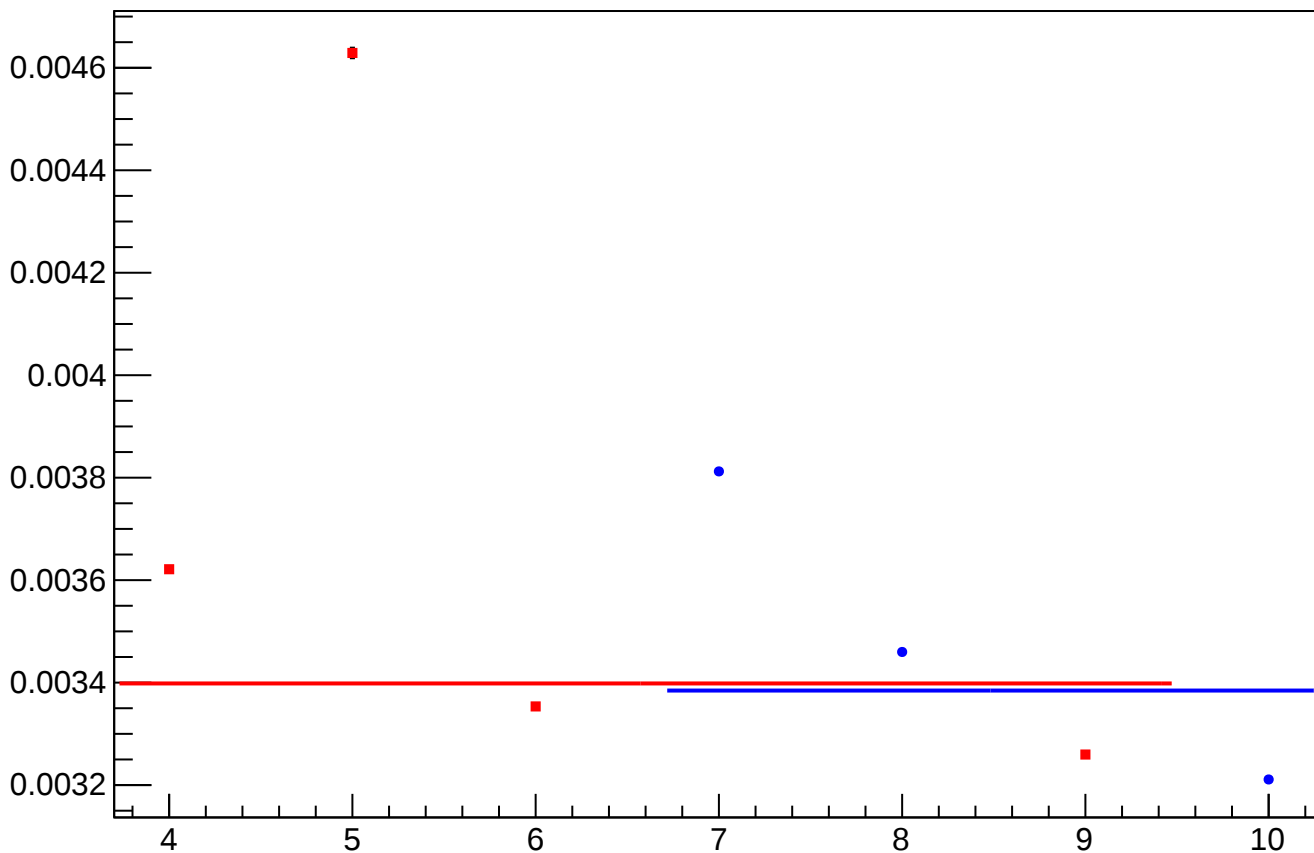
Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 8722517.6/3

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

-0.022+/-0.000  $\chi^2/\text{NDF}$ : 63385668.2/2

0.001+/-0.000  $\chi^2/\text{NDF}$ : 8722517.6/3

# yield\_bpm0l08Y\_rms vs slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 11628.4/2

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

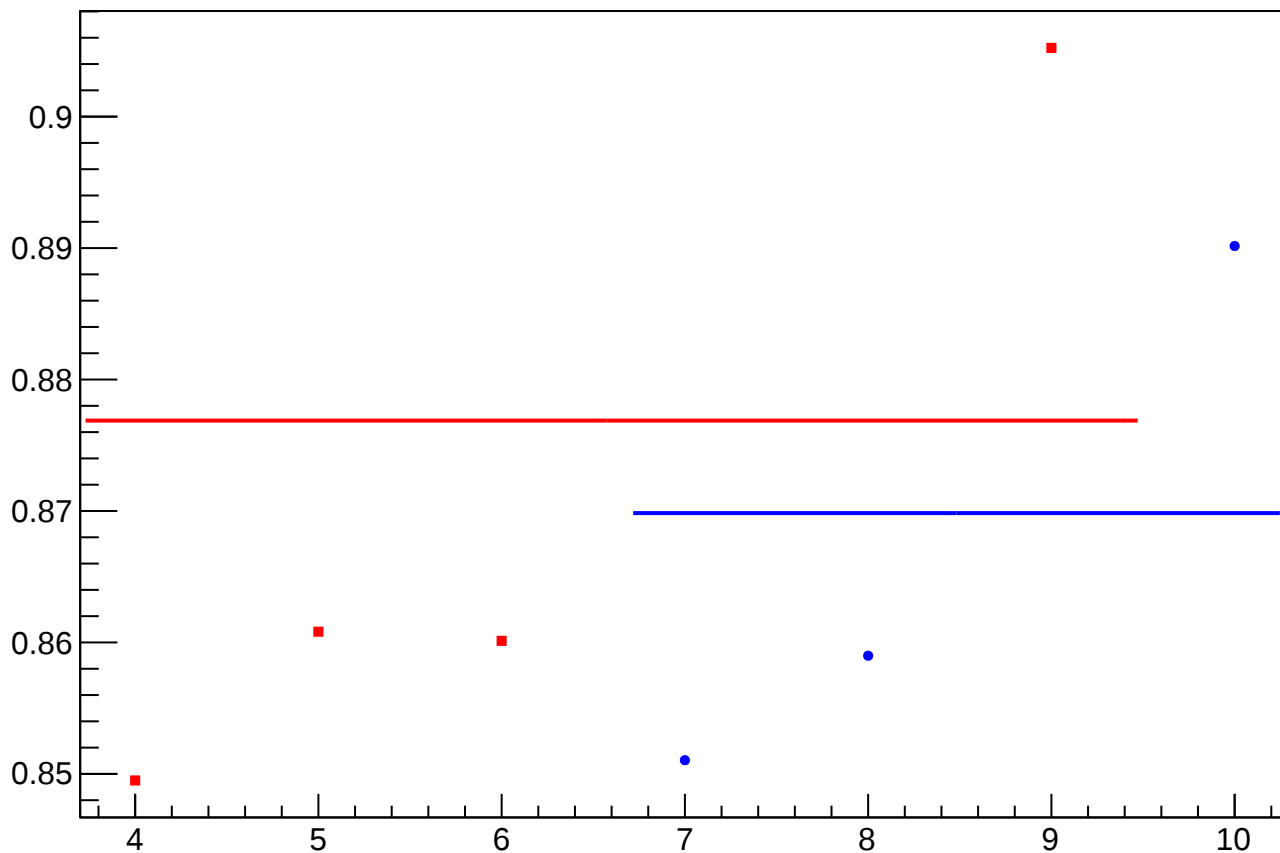
Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 19751.9/3

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

0.003+/-0.000  $\chi^2/\text{NDF}$ : 11628.4/2

0.003+/-0.000  $\chi^2/\text{NDF}$ : 19751.9/3

# yield\_bpm0l09X\_mean vs slug



Right In: 0.870+/-0.000  $\chi^2/\text{NDF}$ : 2238194.9/2

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

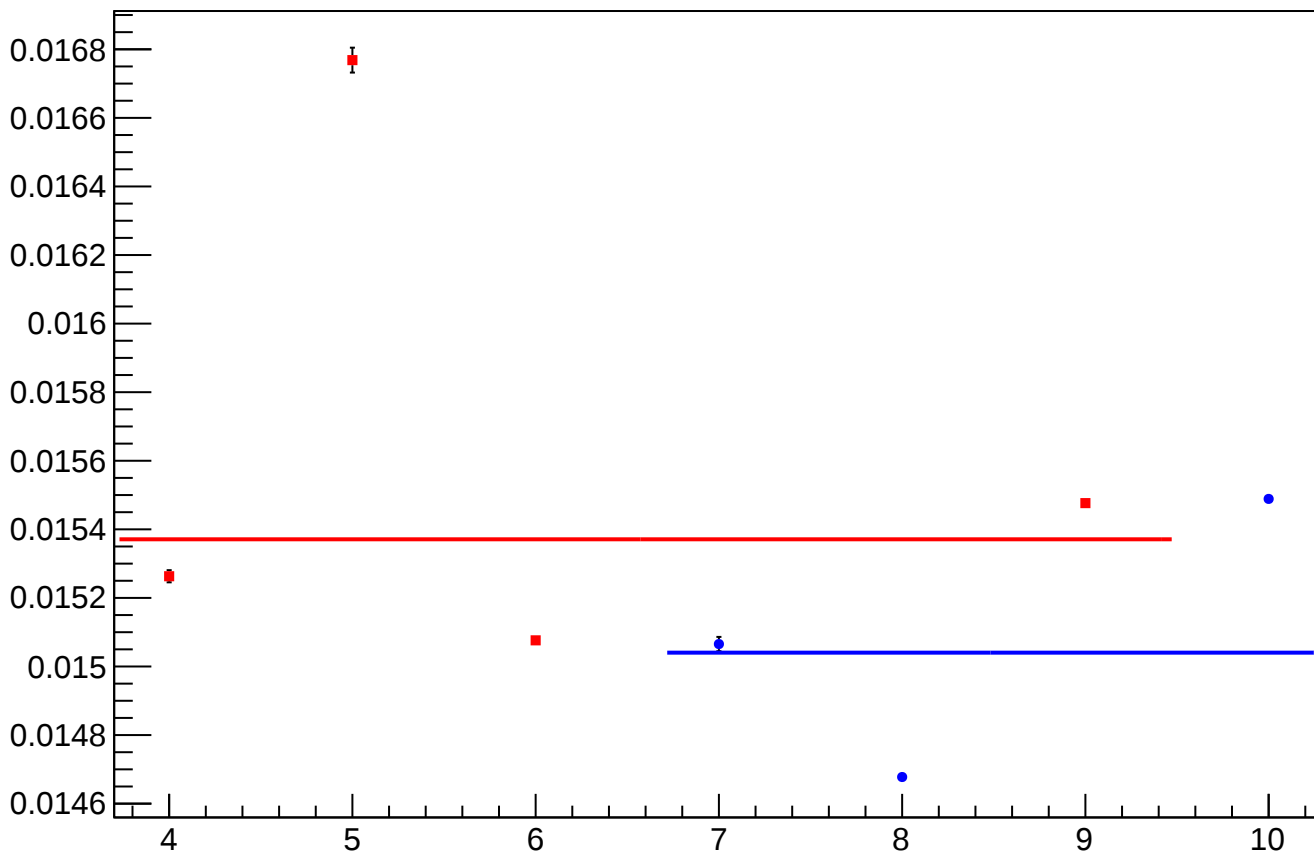
Right Out: 0.877+/-0.000  $\chi^2/\text{NDF}$ : 4458637.9/3

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

0.870+/-0.000  $\chi^2/\text{NDF}$ : 2238194.9/2

0.877+/-0.000  $\chi^2/\text{NDF}$ : 4458637.9/3

# yield\_bpm0l09X\_rms vs slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 2395.5/2

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

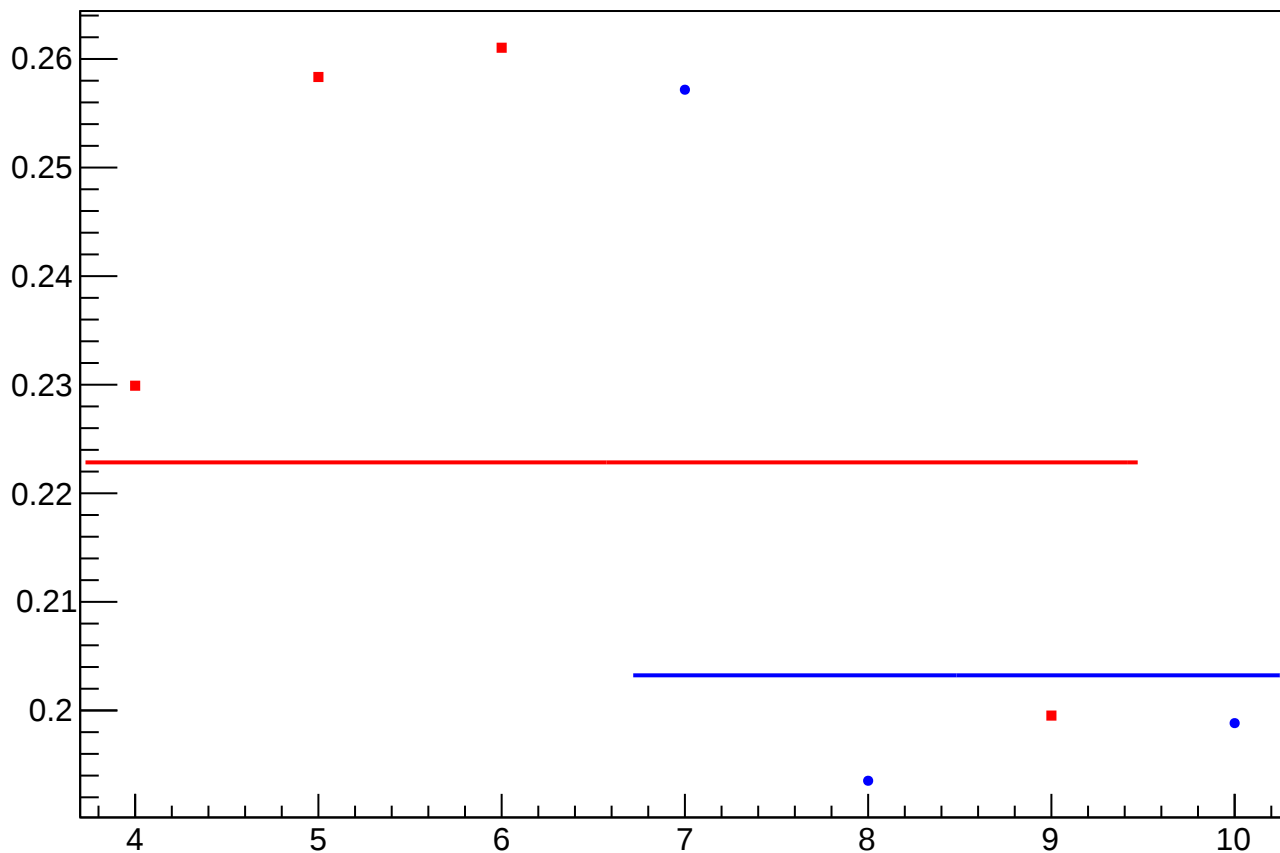
Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1994.4/3

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

0.015+/-0.000  $\chi^2/\text{NDF}$ : 2395.5/2

0.015+/-0.000  $\chi^2/\text{NDF}$ : 1994.4/3

# yield\_bpm0l09Y\_mean vs slug



Right In: 0.203+/-0.000  $\chi^2/\text{NDF}$ : 40927619.3/2

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

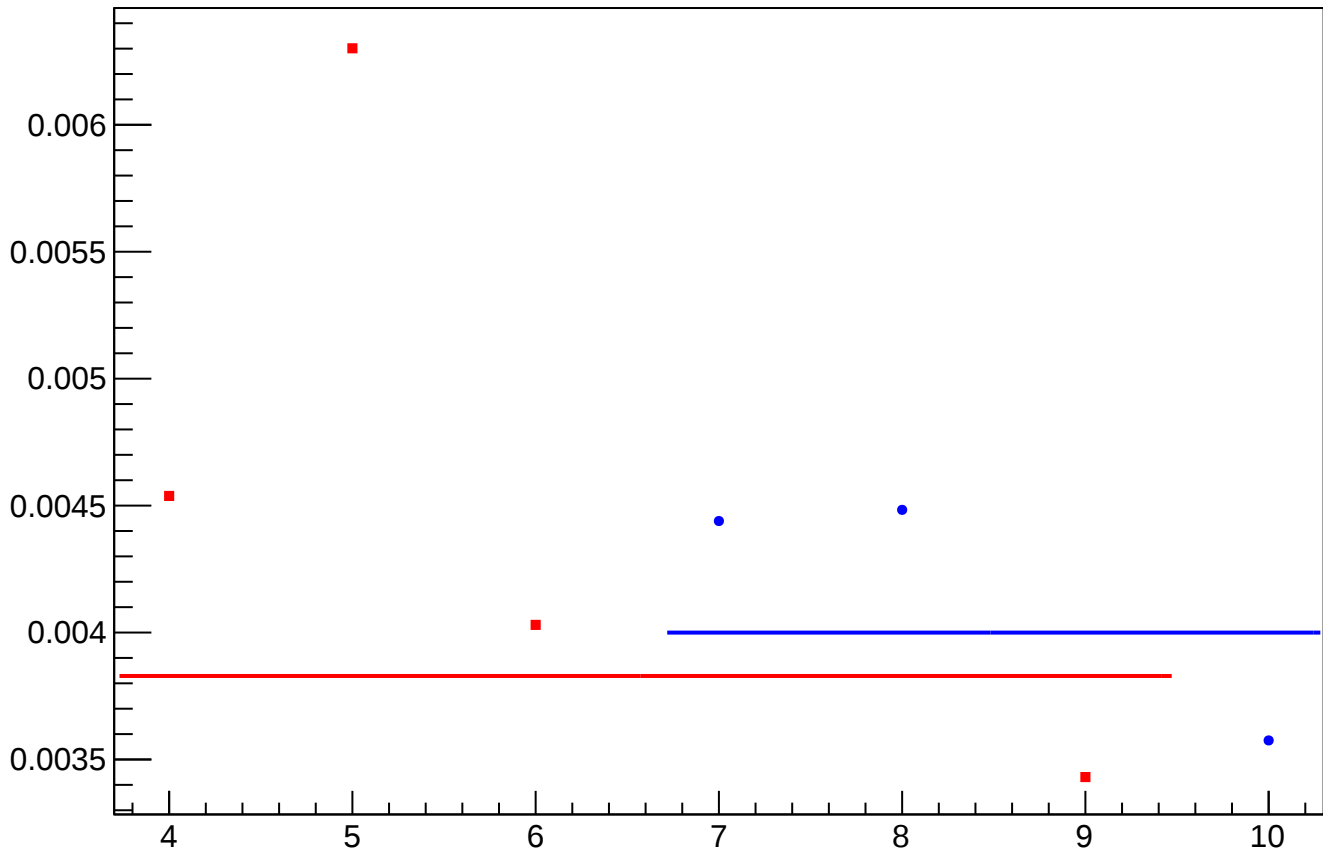
Right Out: 0.223+/-0.000  $\chi^2/\text{NDF}$ : 82408236.5/3

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

0.203+/-0.000  $\chi^2/\text{NDF}$ : 40927619.3/2

0.223+/-0.000  $\chi^2/\text{NDF}$ : 82408236.5/3

# yield\_bpm0l09Y\_rms vs slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 45689.8/2

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

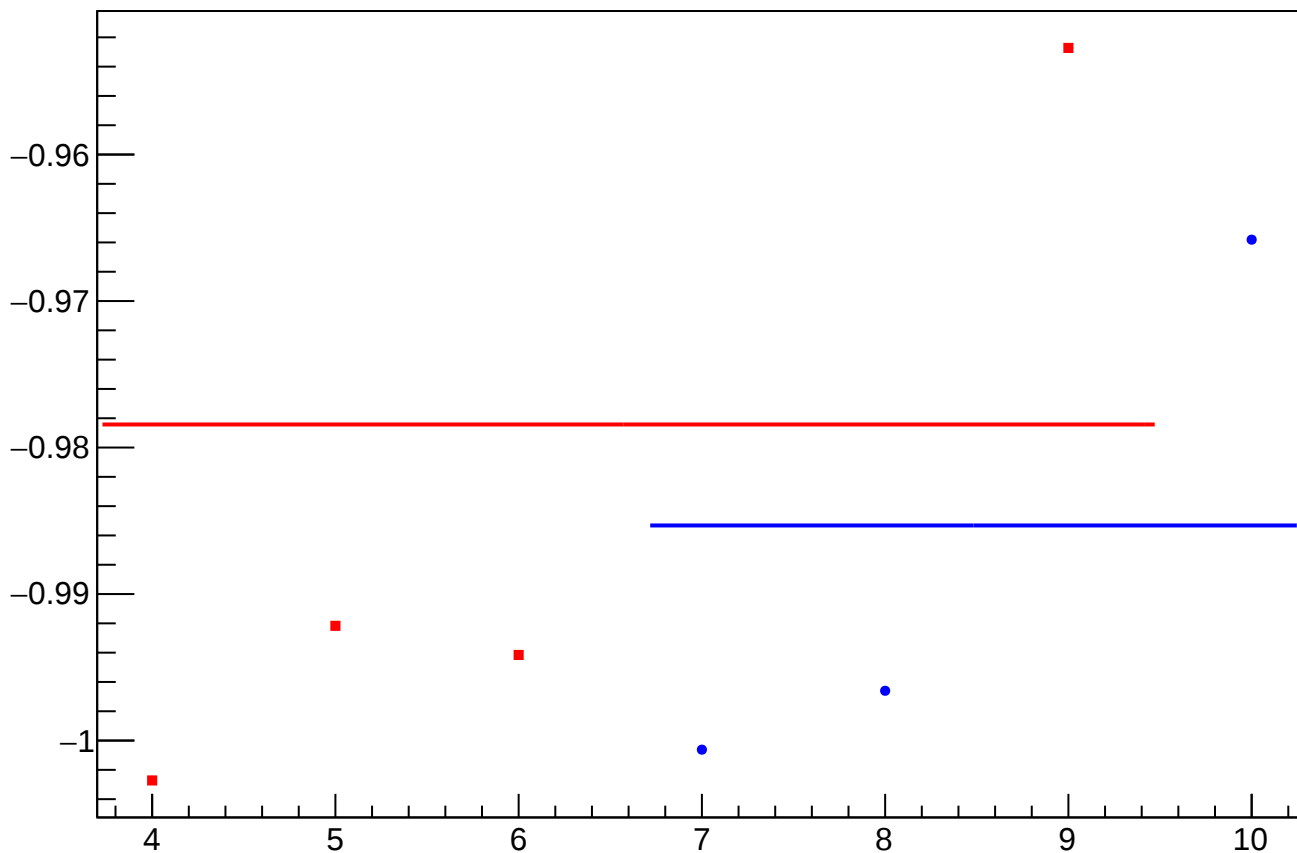
Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 68010.5/3

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

0.004+/-0.000  $\chi^2/\text{NDF}$ : 45689.8/2

0.004+/-0.000  $\chi^2/\text{NDF}$ : 68010.5/3

# yield\_bpm0l10X\_mean vs slug



Right In: -0.985+/-0.000  $\chi^2/\text{NDF}$ : 2172416.0/2

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

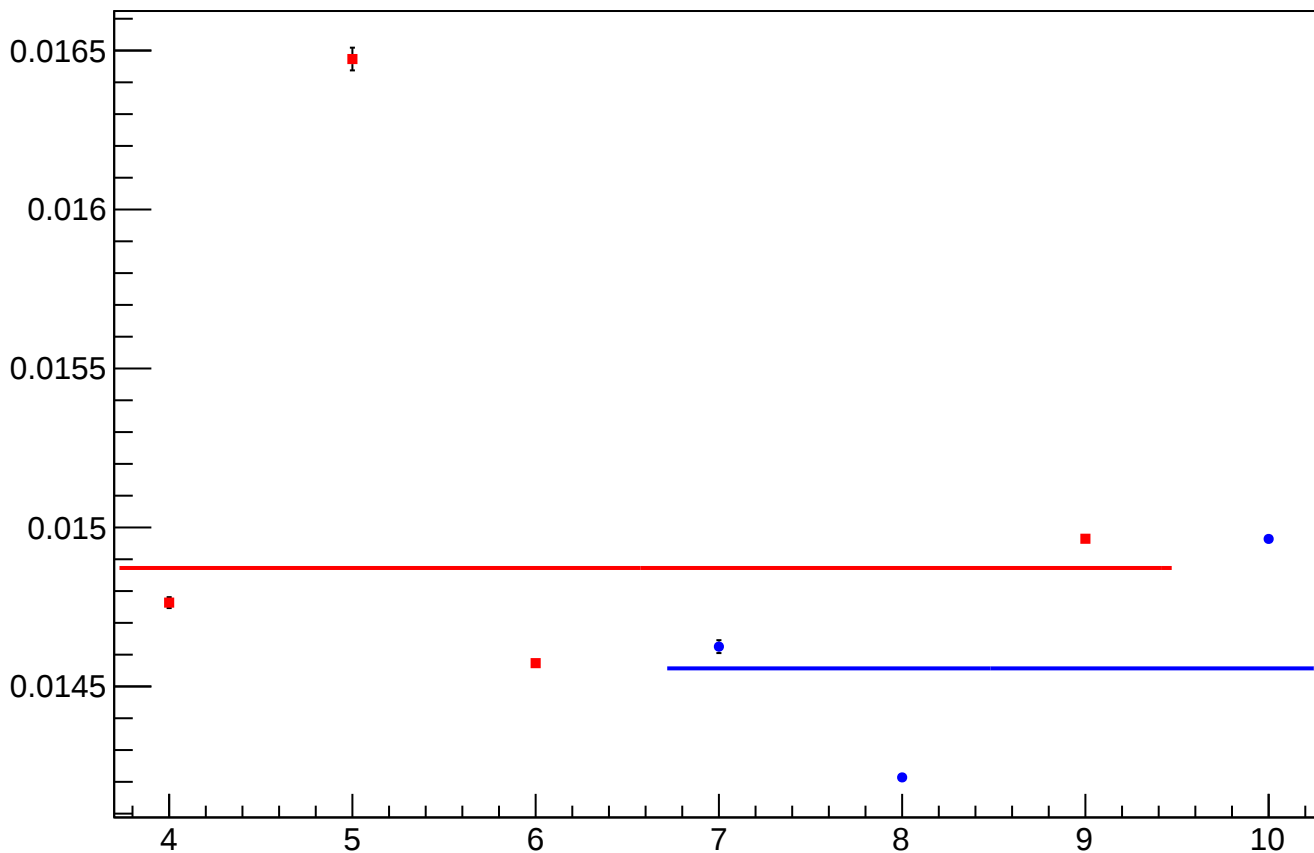
Right Out: -0.978+/-0.000  $\chi^2/\text{NDF}$ : 3904749.4/3

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

-0.985+/-0.000  $\chi^2/\text{NDF}$ : 2172416.0/2

-0.978+/-0.000  $\chi^2/\text{NDF}$ : 3904749.4/3

yield\_bpm0l10X\_rms vs slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 2201.4/2

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

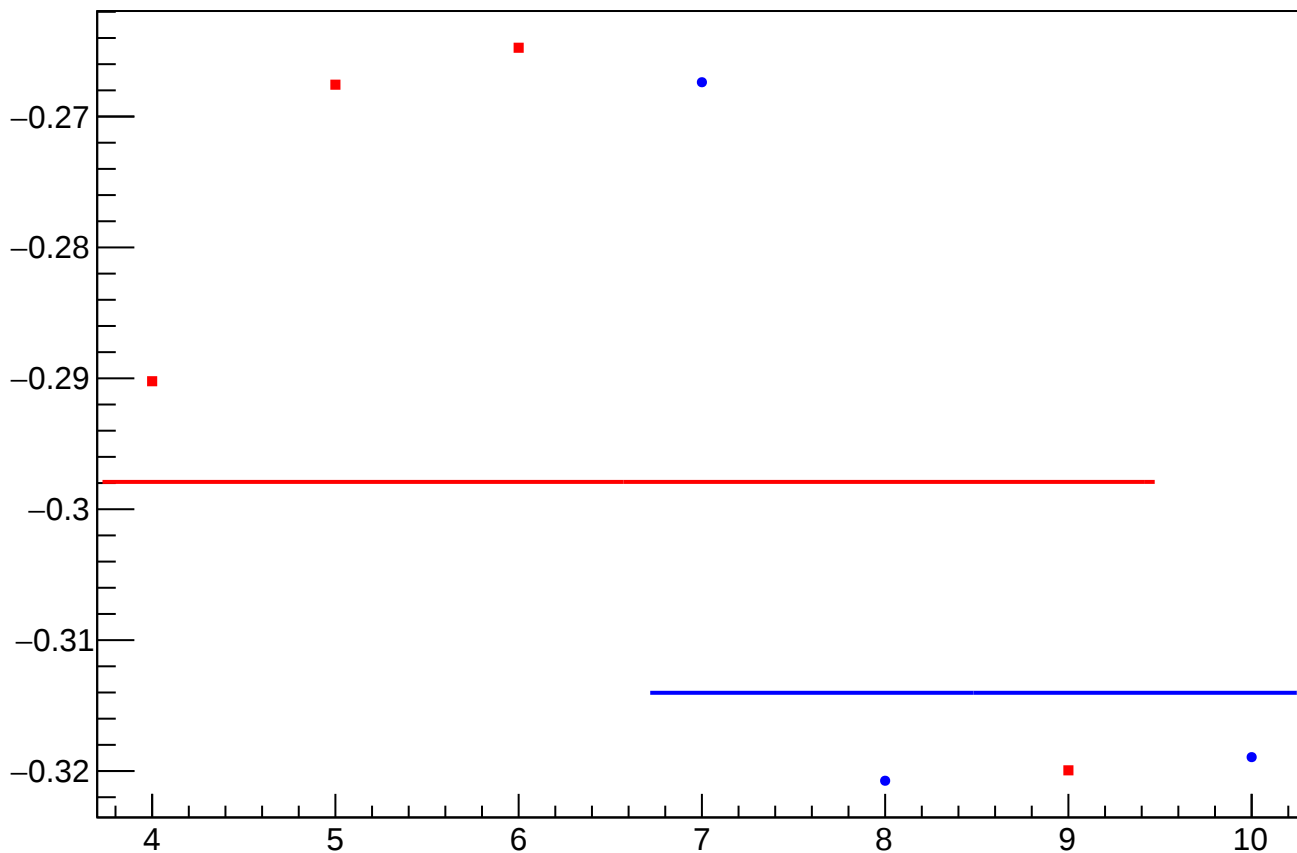
Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 2550.6/3

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

0.015+/-0.000  $\chi^2/\text{NDF}$ : 2201.4/2

0.015+/-0.000  $\chi^2/\text{NDF}$ : 2550.6/3

# yield\_bpm0l10Y\_mean vs slug



Right In: -0.314+/-0.000  $\chi^2/\text{NDF}$ : 35995091.9/2

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

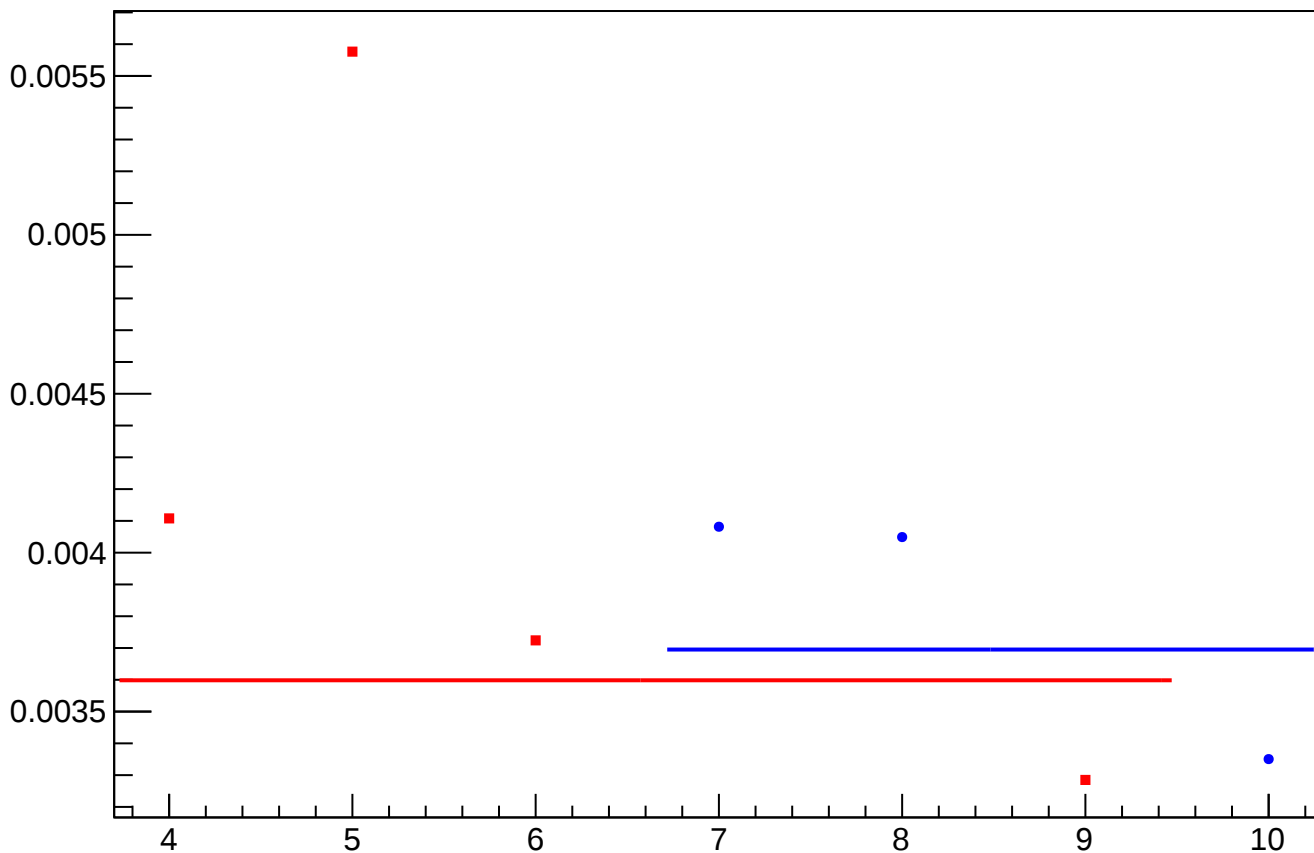
Right Out: -0.298+/-0.000  $\chi^2/\text{NDF}$ : 77713513.8/3

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

-0.314+/-0.000  $\chi^2/\text{NDF}$ : 35995091.9/2

-0.298+/-0.000  $\chi^2/\text{NDF}$ : 77713513.8/3

# yield\_bpm0l10Y\_rms vs slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 33735.5/2

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

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 49768.8/3

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

0.004+/-0.000  $\chi^2/\text{NDF}$ : 33735.5/2

0.004+/-0.000  $\chi^2/\text{NDF}$ : 49768.8/3