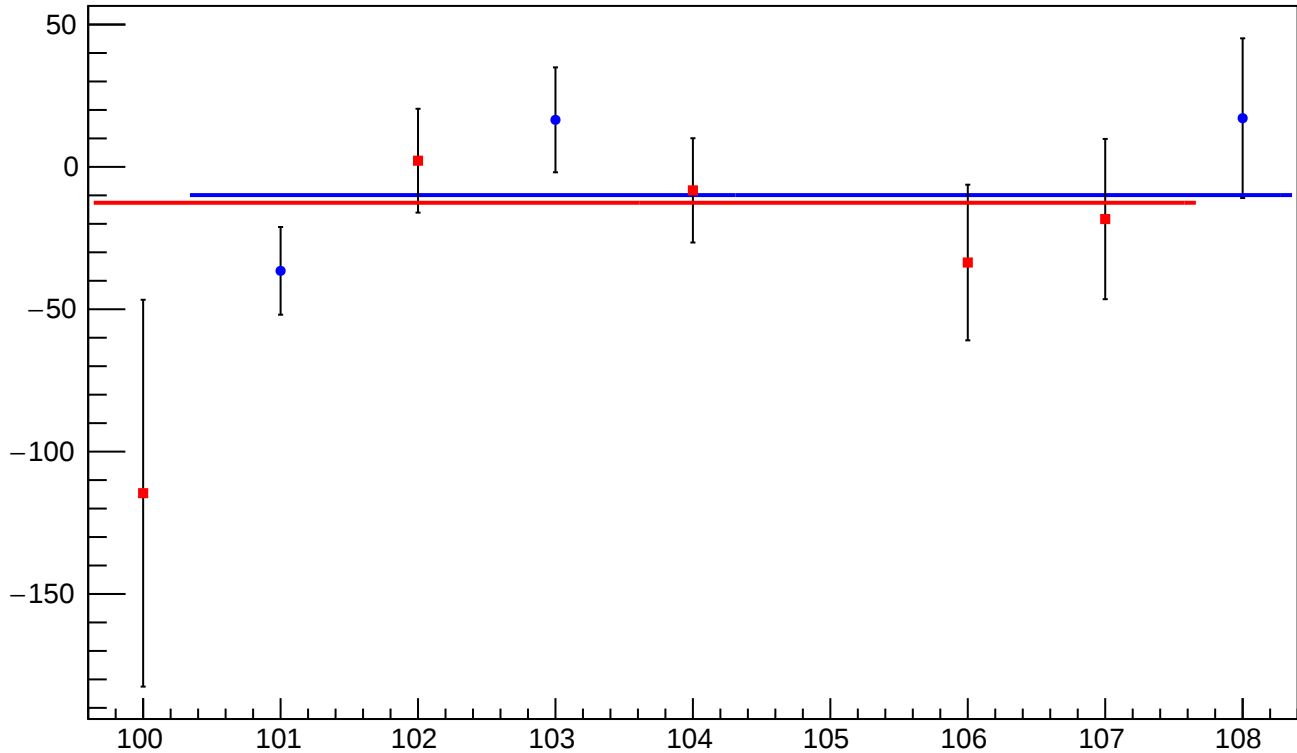


# diff\_bpm4aX\_mean vs Slug



Right In: -9.906 $\pm$ 10.890

$\chi^2$ /NDF: 6.0/2

Left Out: 0.000 $\pm$ 0.000

$\chi^2$ /NDF: 0.0/0

Right Out: -12.597 $\pm$ 10.654

$\chi^2$ /NDF: 3.6/4

Left In: 0.000 $\pm$ 0.000

$\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000

$\chi^2$ /NDF: 0.0/0

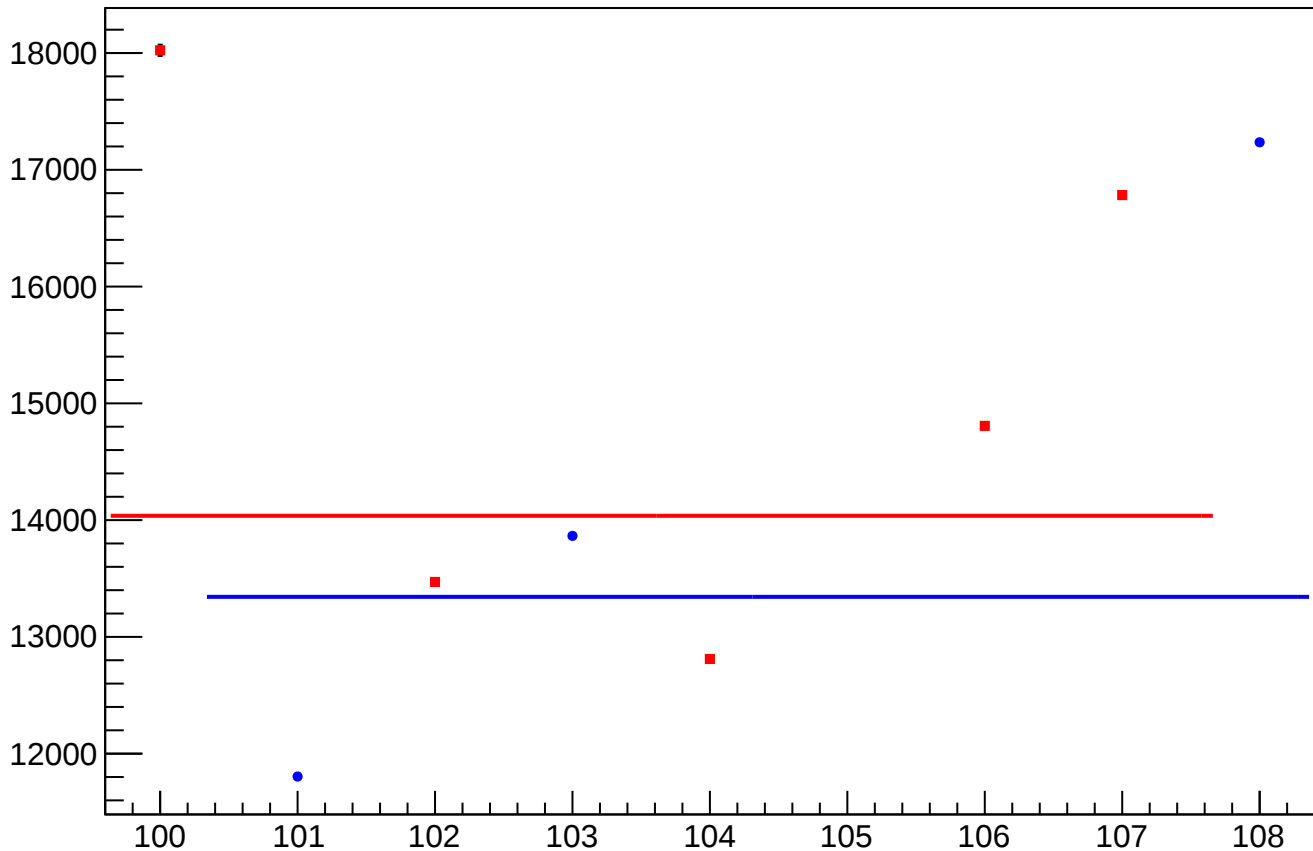
All: -11.281 $\pm$ 7.616

$\chi^2$ /NDF: 9.6/7

- sign 0.000 $\pm$ 0.000

$\chi^2$ /NDF: 0.0/0

# diff\_bpm4aX\_rms vs Slug



Right In: 13342.916+/-7.701  $\chi^2/\text{NDF}$ : 60096.8/2

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

Right Out: 14037.096+/-7.533  $\chi^2/\text{NDF}$ : 38430.5/4

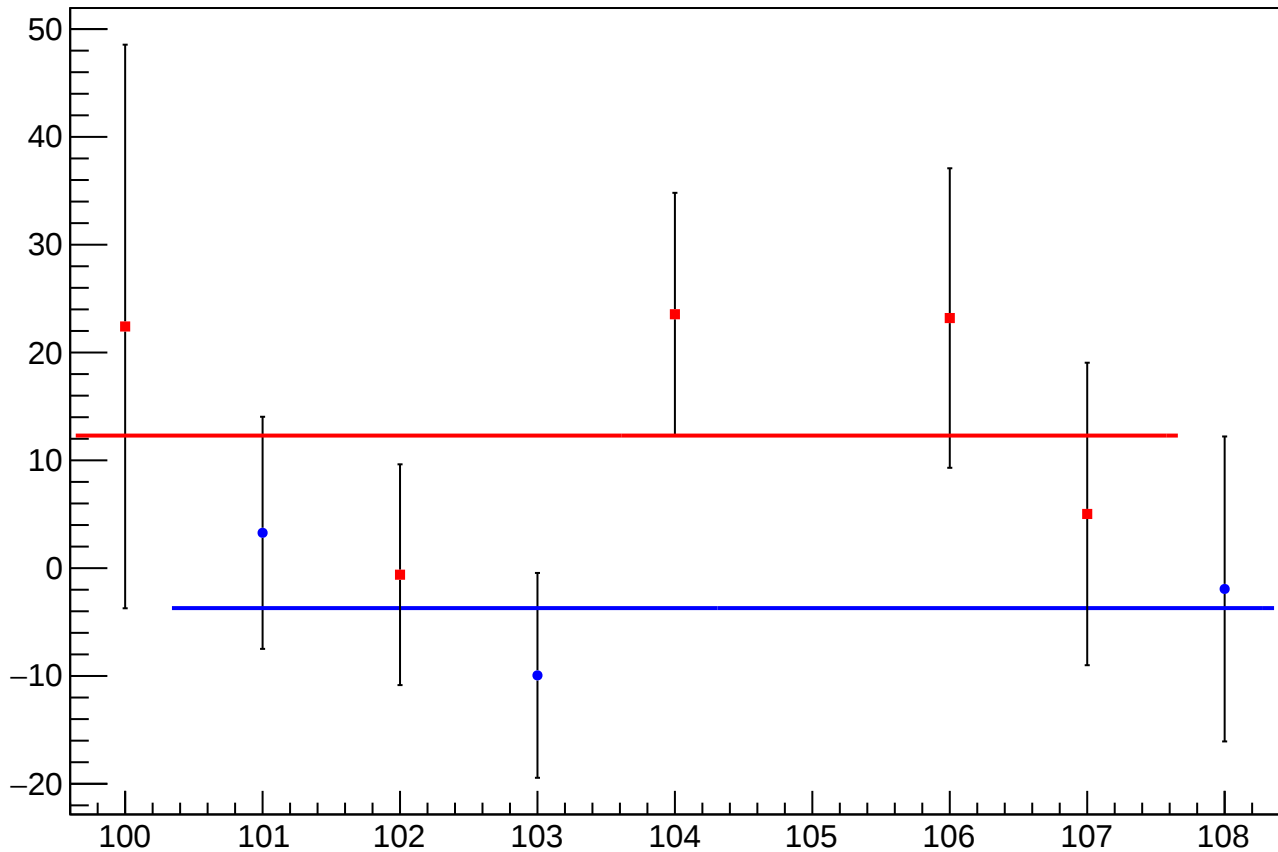
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 13697.626+/-5.385  $\chi^2/\text{NDF}$ : 102679.5/7

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

# diff\_bpm4aY\_mean vs Slug



Right In: -3.705 $\pm$ 6.362  $\chi^2$ /NDF: 0.9/2

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

Right Out: 12.297 $\pm$ 5.857  $\chi^2$ /NDF: 3.6/4

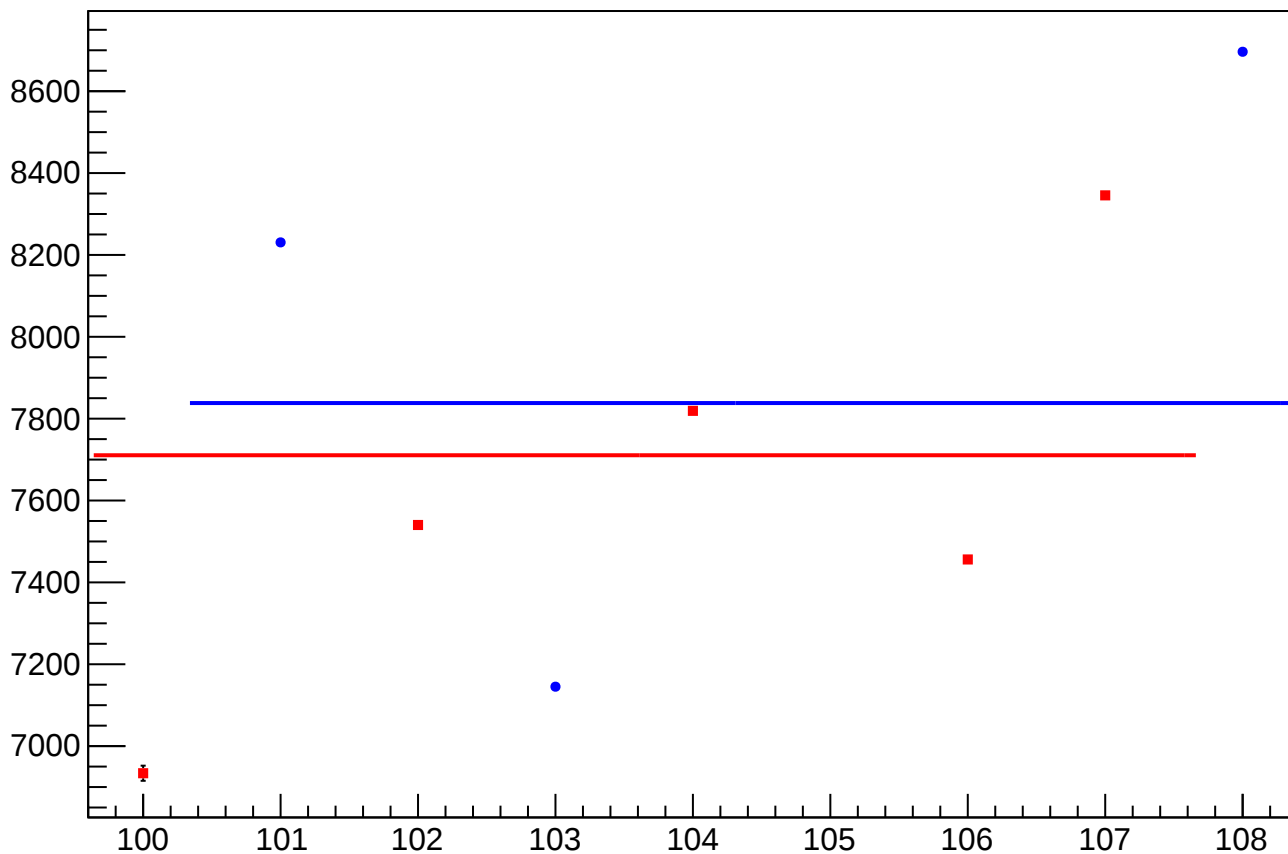
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 4.956 $\pm$ 4.309  $\chi^2$ /NDF: 7.9/7

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

# diff\_bpm4aY\_rms vs Slug



Right In: 7838.136 $\pm$ 4.498  $\chi^2$ /NDF: 20665.7/2

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

Right Out: 7710.610 $\pm$ 4.141  $\chi^2$ /NDF: 7275.3/4

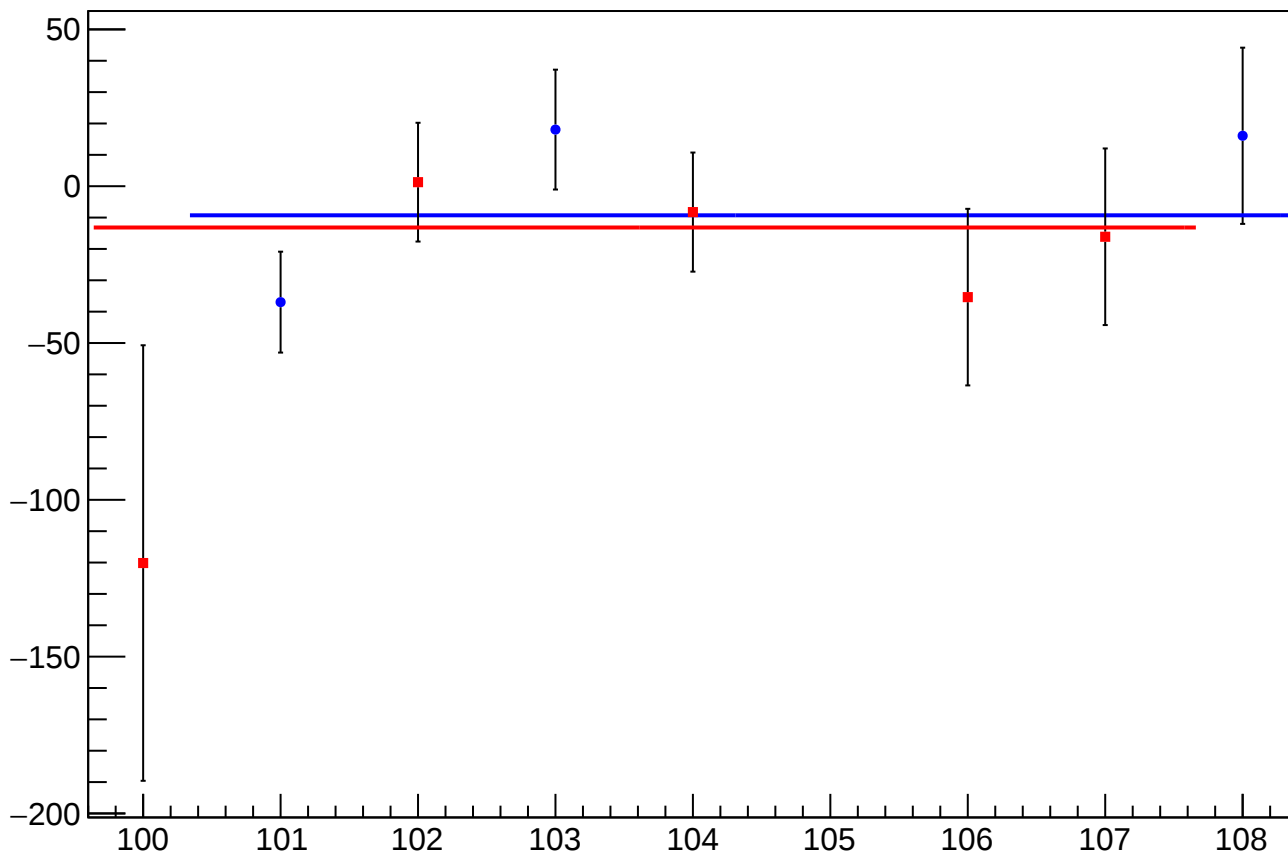
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 7769.113 $\pm$ 3.047  $\chi^2$ /NDF: 28376.1/7

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

# diff\_bpm4eX\_mean vs Slug



Right In:  $-9.278 \pm 11.273$   $\chi^2/\text{NDF}$ : 5.8/2

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

Right Out:  $-13.165 \pm 10.981$   $\chi^2/\text{NDF}$ : 3.7/4

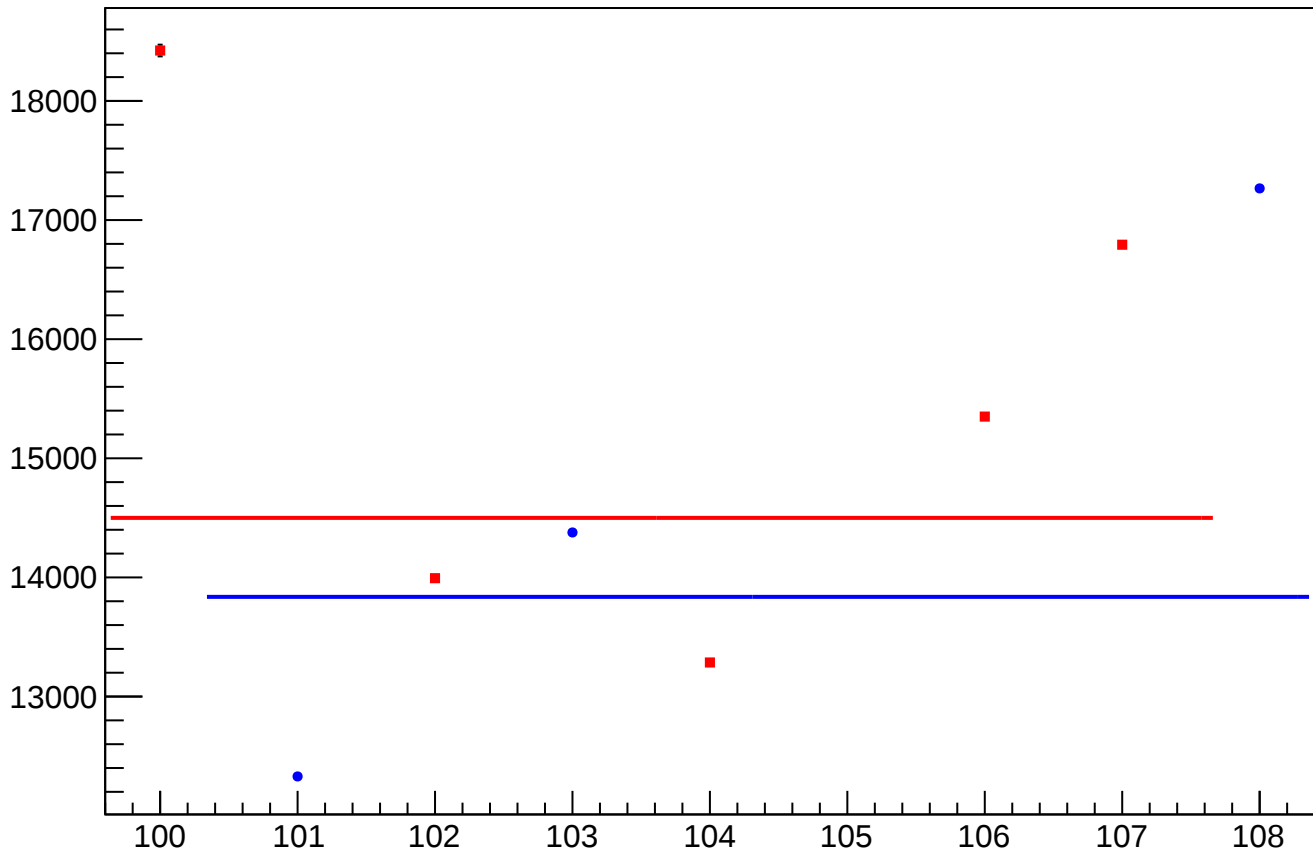
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-11.272 \pm 7.866$   $\chi^2/\text{NDF}$ : 9.5/7

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

# diff\_bpm4eX\_rms vs Slug



Right In: 13836.810+/-7.971  $\chi^2/\text{NDF}$ : 48956.6/2

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

Right Out: 14499.919+/-7.765  $\chi^2/\text{NDF}$ : 31078.9/4

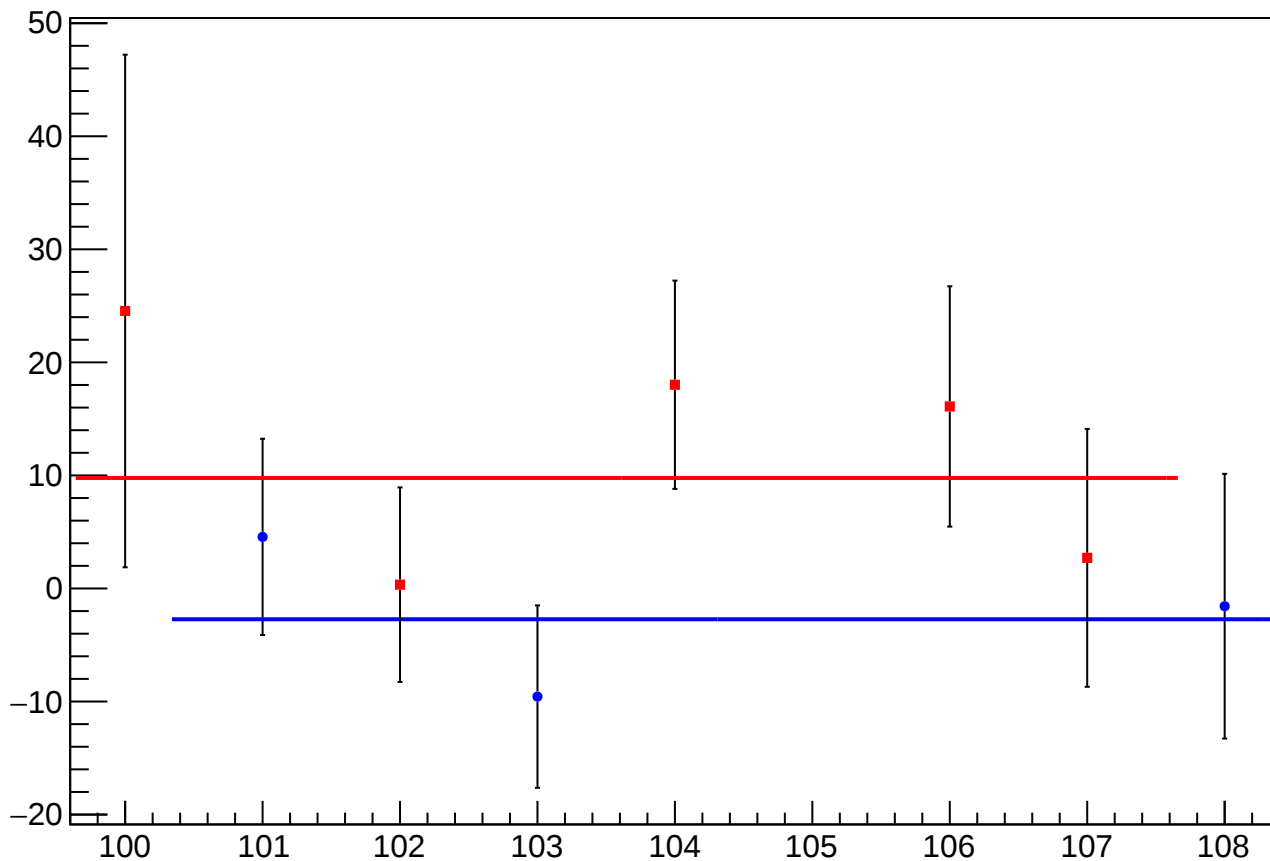
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 14177.053+/-5.562  $\chi^2/\text{NDF}$ : 83586.5/7

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

# diff\_bpm4eY\_mean vs Slug



Right In: -2.723+/-5.275  $\chi^2/\text{NDF}$ : 1.4/2

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

Right Out: 9.776+/-4.780  $\chi^2/\text{NDF}$ : 3.2/4

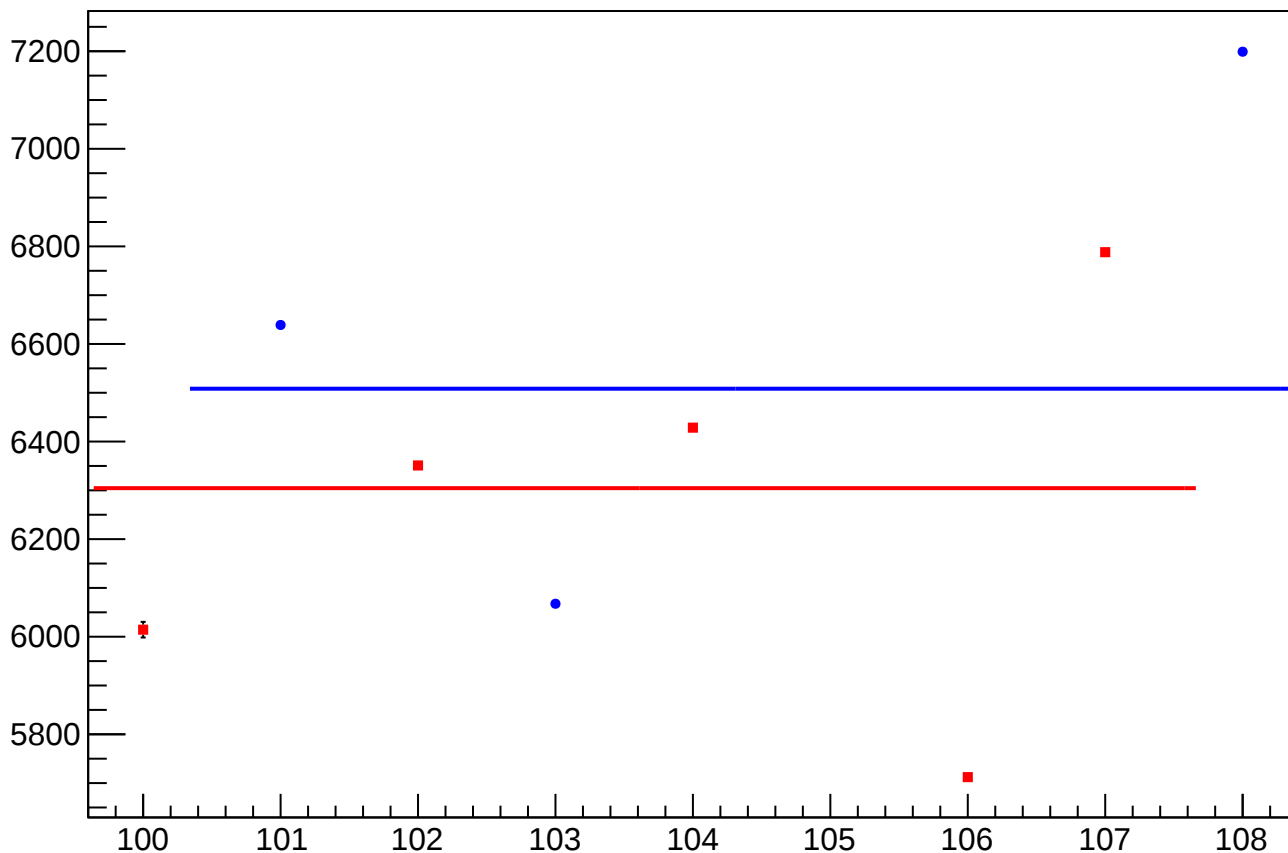
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 4.141+/-3.542  $\chi^2/\text{NDF}$ : 7.7/7

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

# diff\_bpm4eY\_rms vs Slug



Right In: 6508.313 $\pm$ 3.730  $\chi^2$ /NDF: 13384.2/2

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

Right Out: 6304.481 $\pm$ 3.380  $\chi^2$ /NDF: 10554.2/4

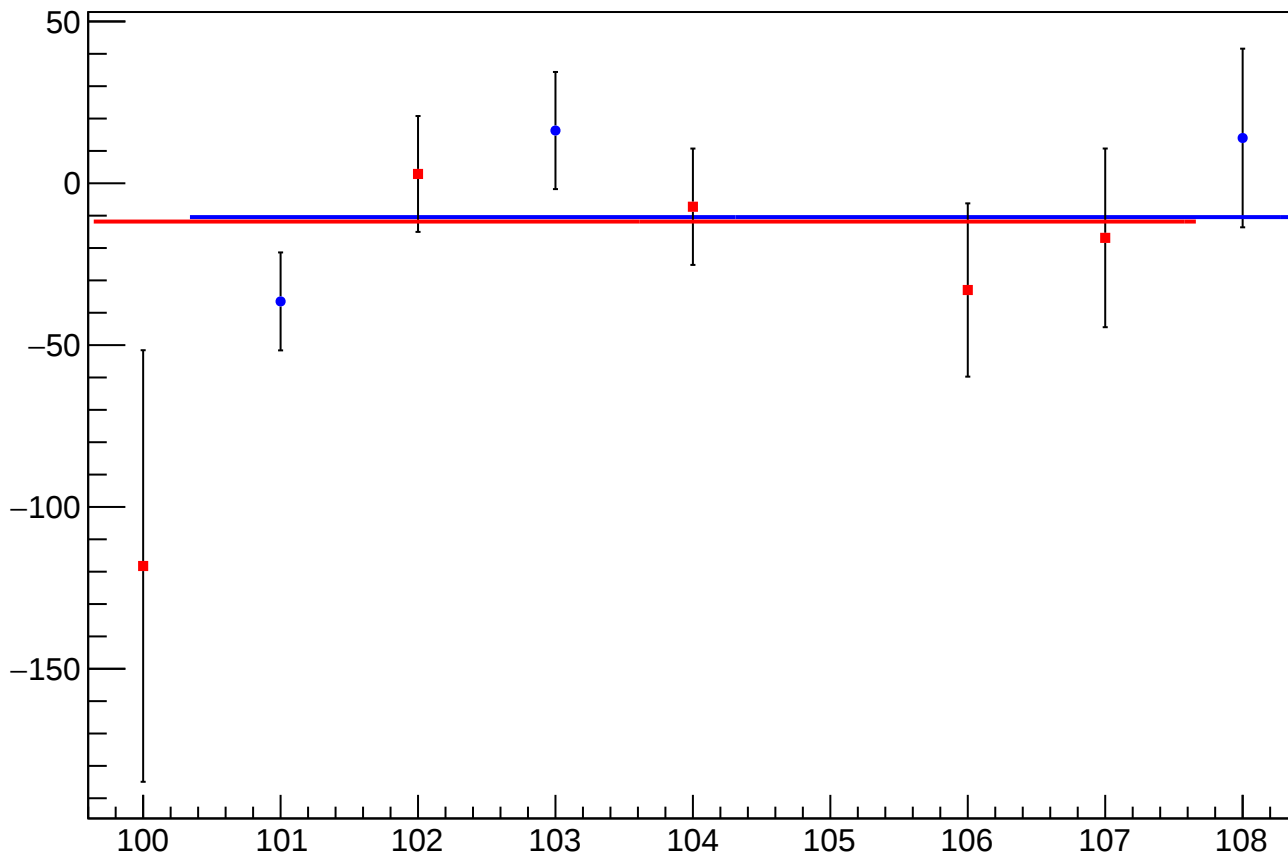
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 6396.375 $\pm$ 2.505  $\chi^2$ /NDF: 25578.1/7

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

# diff\_bpm4acX\_mean vs Slug



Right In:  $-10.447 \pm 10.700$   $\chi^2/\text{NDF}$ : 5.9/2

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

Right Out:  $-11.822 \pm 10.455$   $\chi^2/\text{NDF}$ : 3.9/4

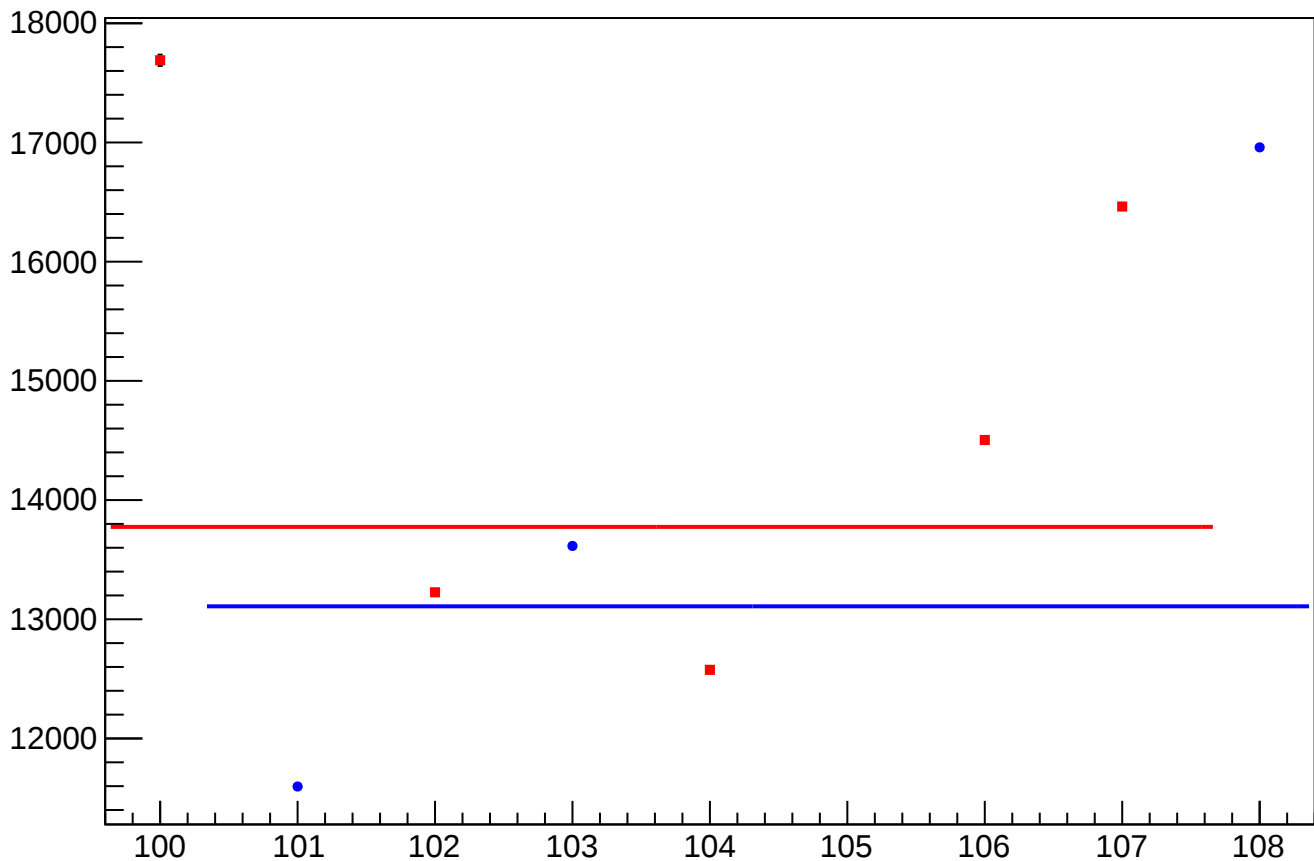
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-11.150 \pm 7.478$   $\chi^2/\text{NDF}$ : 9.9/7

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

# diff\_bpm4acX\_rms vs Slug



Right In: 13108.632 $\pm$ 7.566  $\chi^2$ /NDF: 60461.9/2

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

Right Out: 13775.156 $\pm$ 7.393  $\chi^2$ /NDF: 38117.8/4

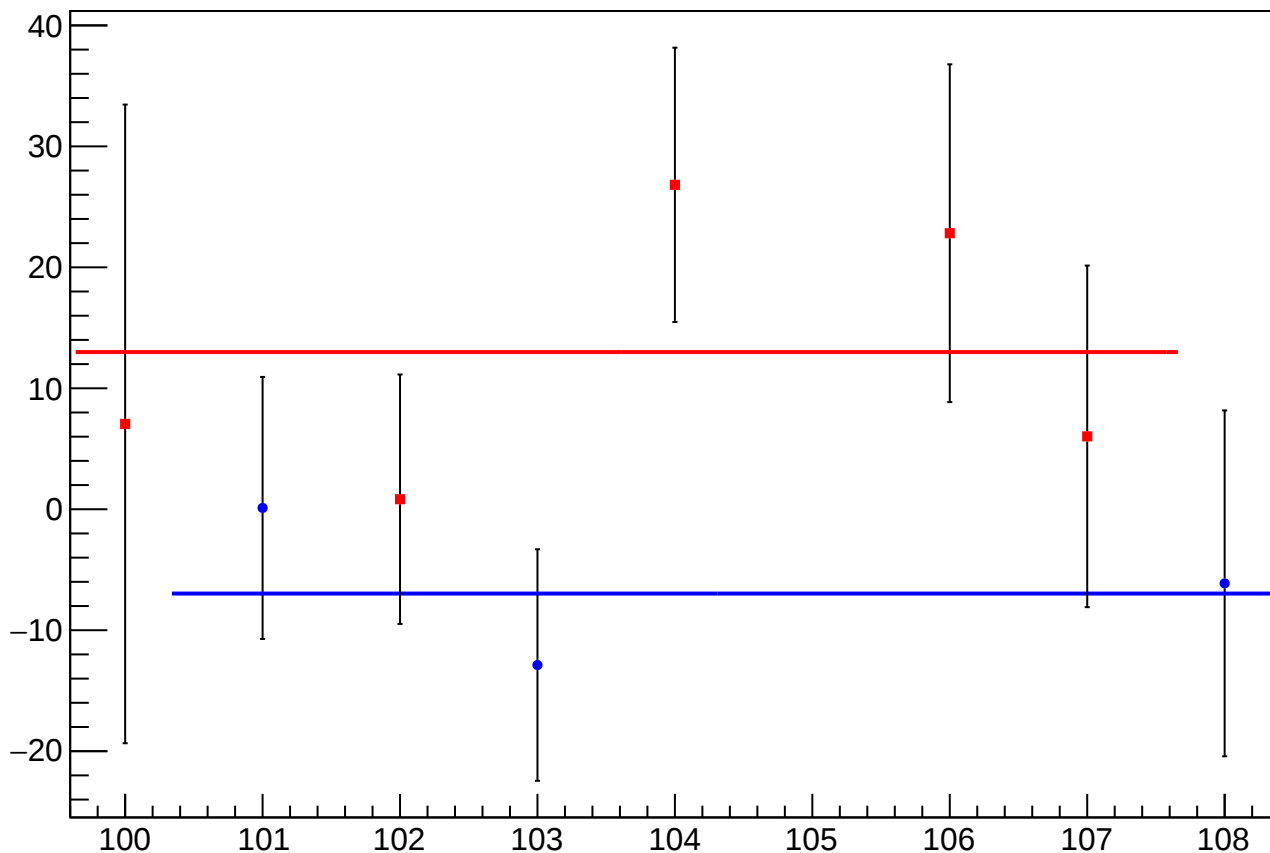
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 13449.623 $\pm$ 5.288  $\chi^2$ /NDF: 102550.1/7

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

# diff\_bpm4acY\_mean vs Slug



Right In:  $-6.970 \pm 6.410$   $\chi^2/\text{NDF}$ : 0.8/2

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

Right Out:  $12.994 \pm 5.896$   $\chi^2/\text{NDF}$ : 3.7/4

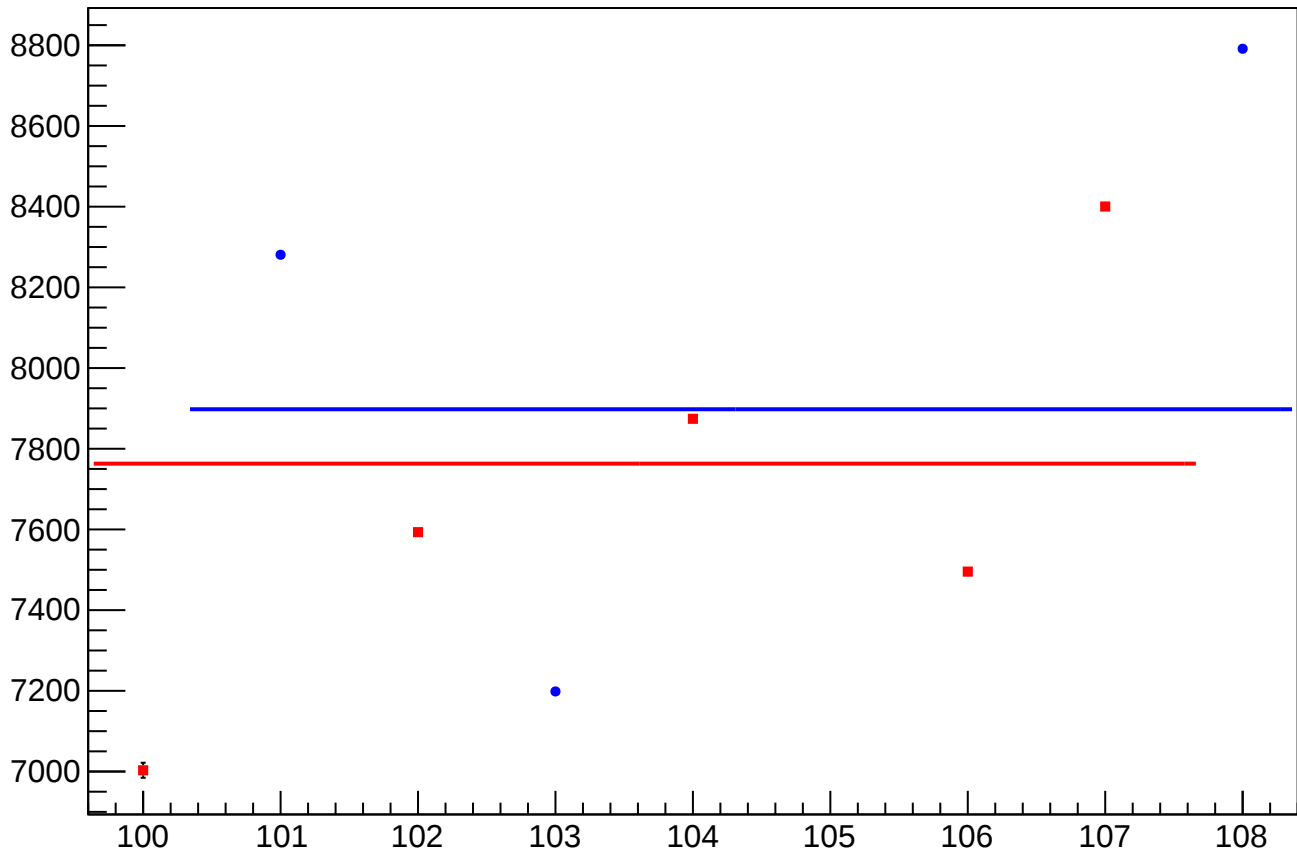
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $3.845 \pm 4.340$   $\chi^2/\text{NDF}$ : 9.7/7

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

# diff\_bpm4acY\_rms vs Slug



Right In: 7897.909 $\pm$ 4.533  $\chi^2$ /NDF: 20992.7/2

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

Right Out: 7763.099 $\pm$ 4.169  $\chi^2$ /NDF: 7201.3/4

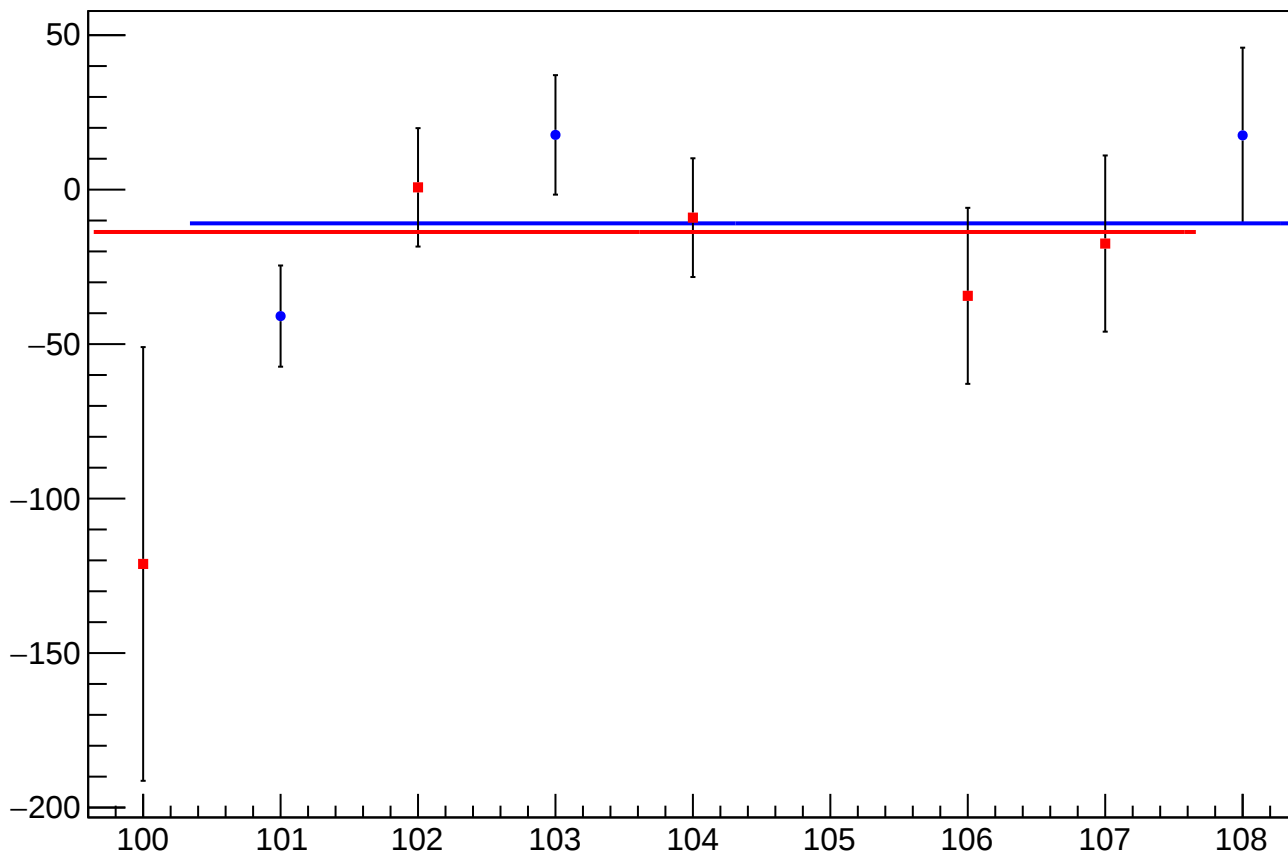
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 7824.880 $\pm$ 3.069  $\chi^2$ /NDF: 28673.1/7

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

# diff\_bpm4ecX\_mean vs Slug



Right In:  $-10.914 \pm 11.438$   $\chi^2/\text{NDF}$ : 6.6/2

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

Right Out:  $-13.708 \pm 11.114$   $\chi^2/\text{NDF}$ : 3.5/4

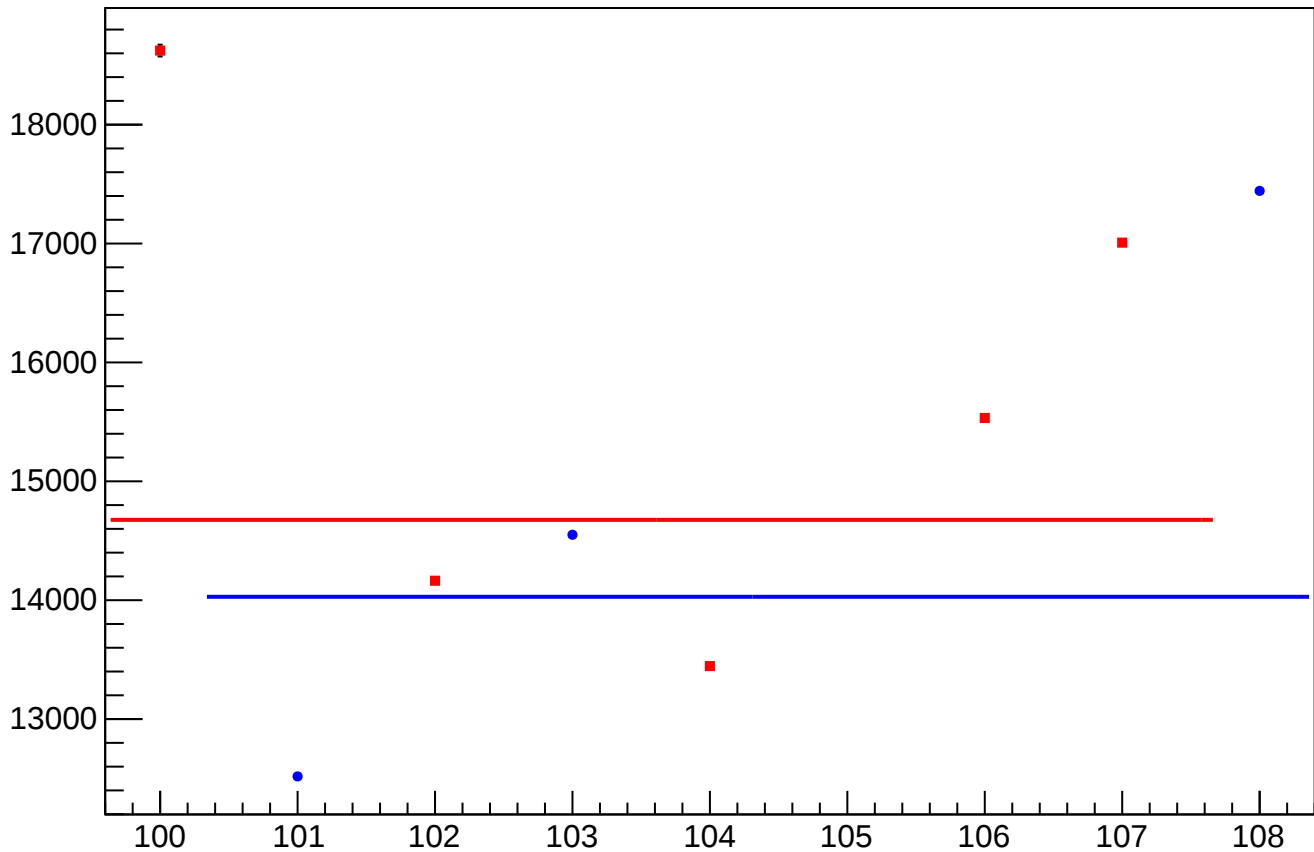
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-12.351 \pm 7.971$   $\chi^2/\text{NDF}$ : 10.1/7

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

# diff\_bpm4ecX\_rms vs Slug



Right In: 14028.620 $\pm$ 8.088  $\chi^2$ /NDF: 47421.8/2

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

Right Out: 14675.859 $\pm$ 7.859  $\chi^2$ /NDF: 31130.2/4

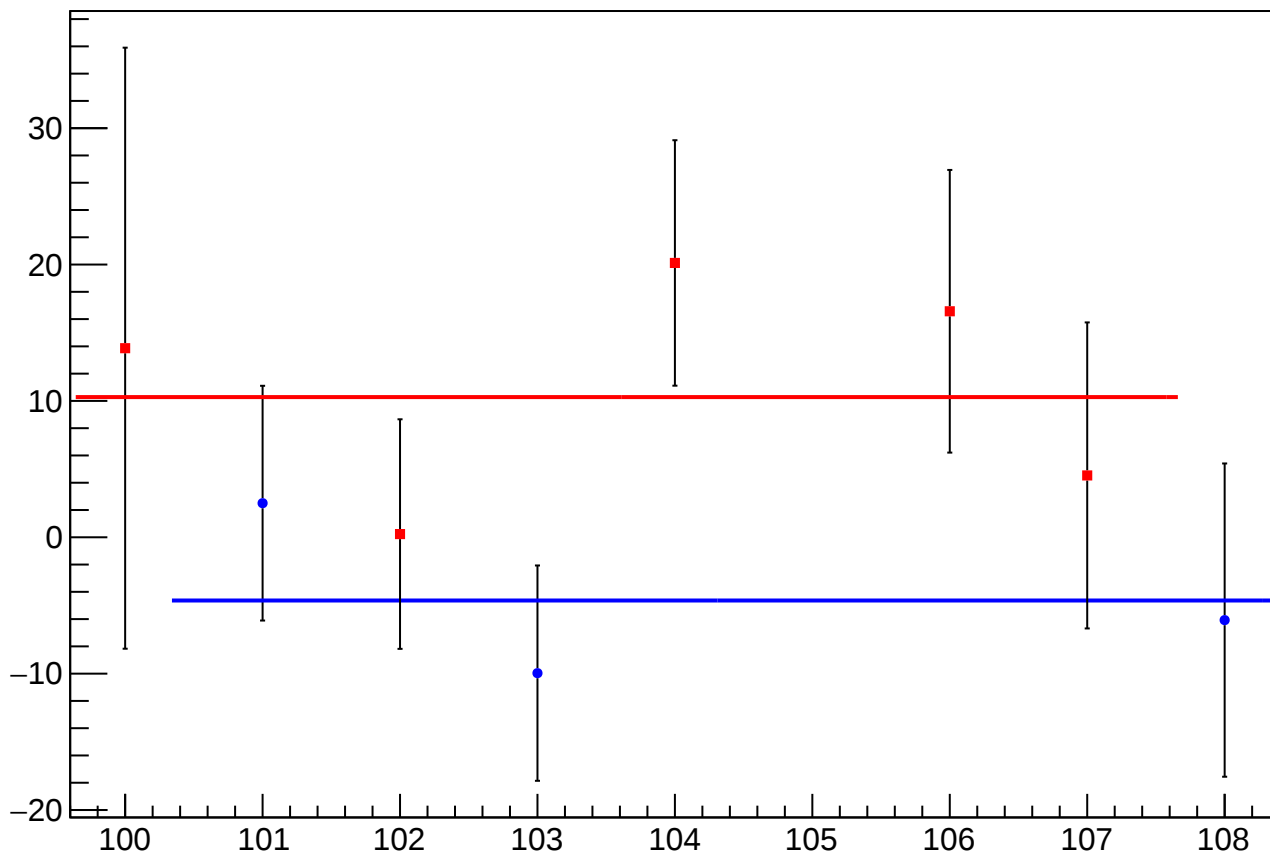
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 14361.521 $\pm$ 5.636  $\chi^2$ /NDF: 81845.9/7

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

diff\_bpm4ecY\_mean vs Slug



Right In: -4.636+/-5.190  $\chi^2/\text{NDF}$ : 1.2/2

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

Right Out: 10.281+/-4.674  $\chi^2/\text{NDF}$ : 3.3/4

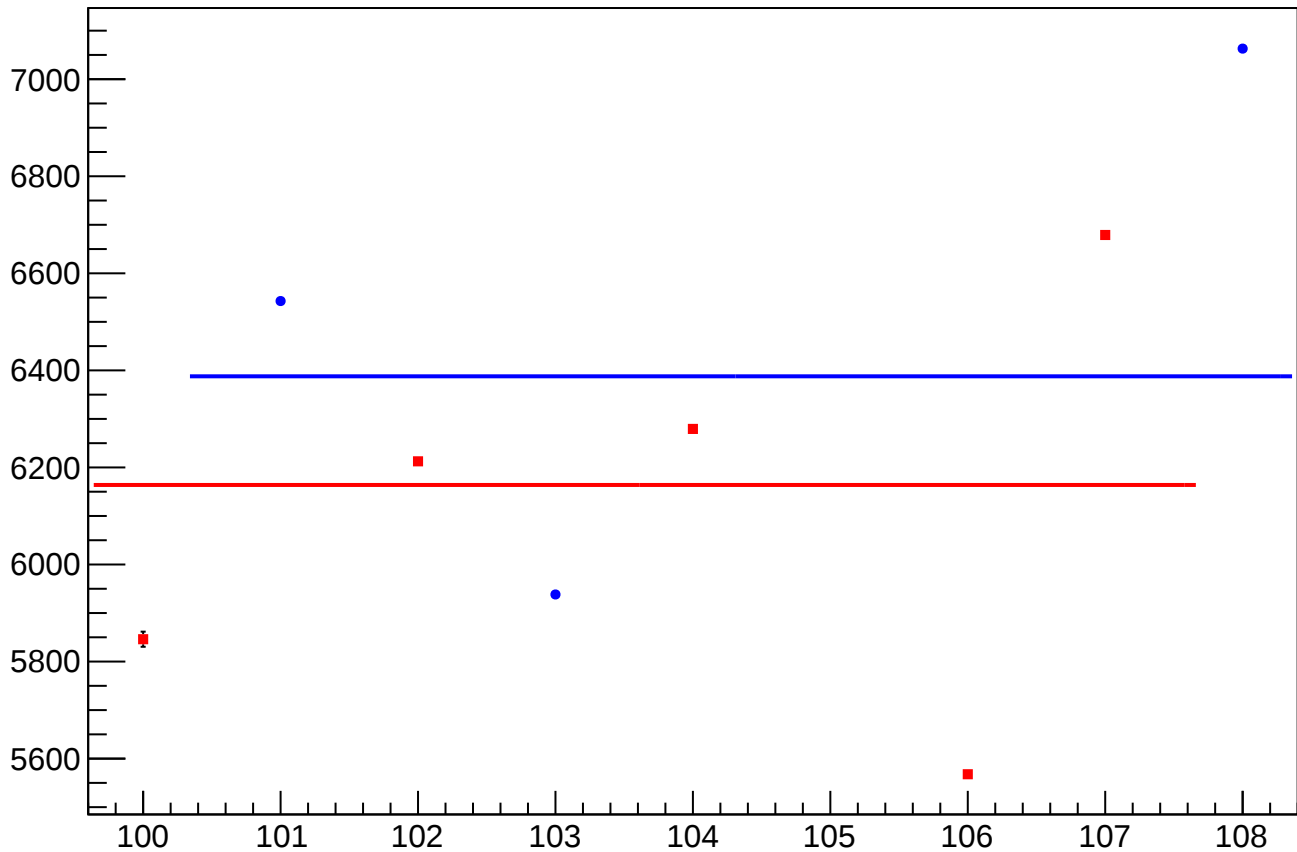
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 3.601+/-3.473  $\chi^2/\text{NDF}$ : 9.0/7

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

# diff\_bpm4ecY\_rms vs Slug



Right In: 6387.776 $\pm$ 3.670  $\chi^2$ /NDF: 14045.4/2

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

Right Out: 6163.895 $\pm$ 3.305  $\chi^2$ /NDF: 11642.5/4

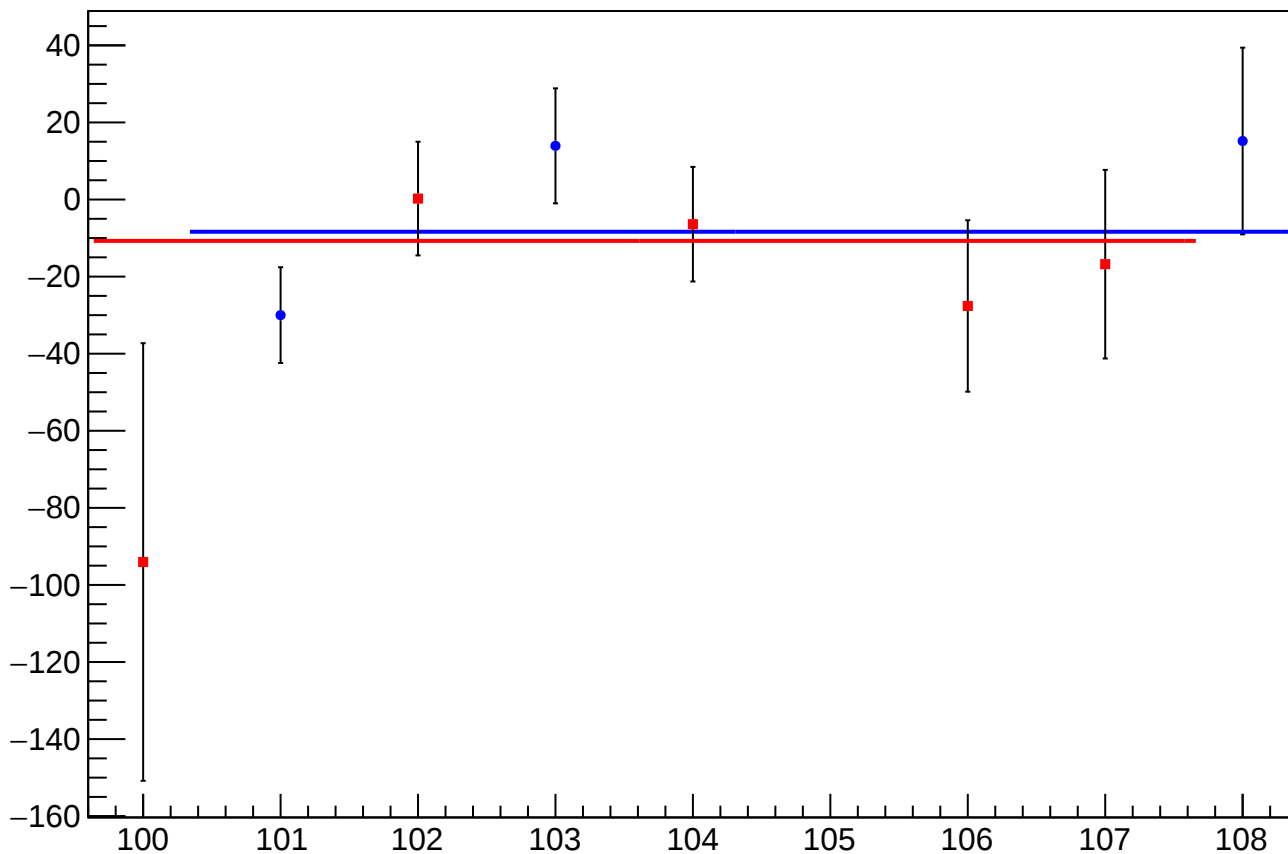
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 6264.155 $\pm$ 2.456  $\chi^2$ /NDF: 27742.6/7

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

# diff\_bpm1X\_mean vs Slug



Right In: -8.356+/-8.881  $\chi^2/\text{NDF}$ : 6.2/2

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

Right Out: -10.731+/-8.728  $\chi^2/\text{NDF}$ : 3.4/4

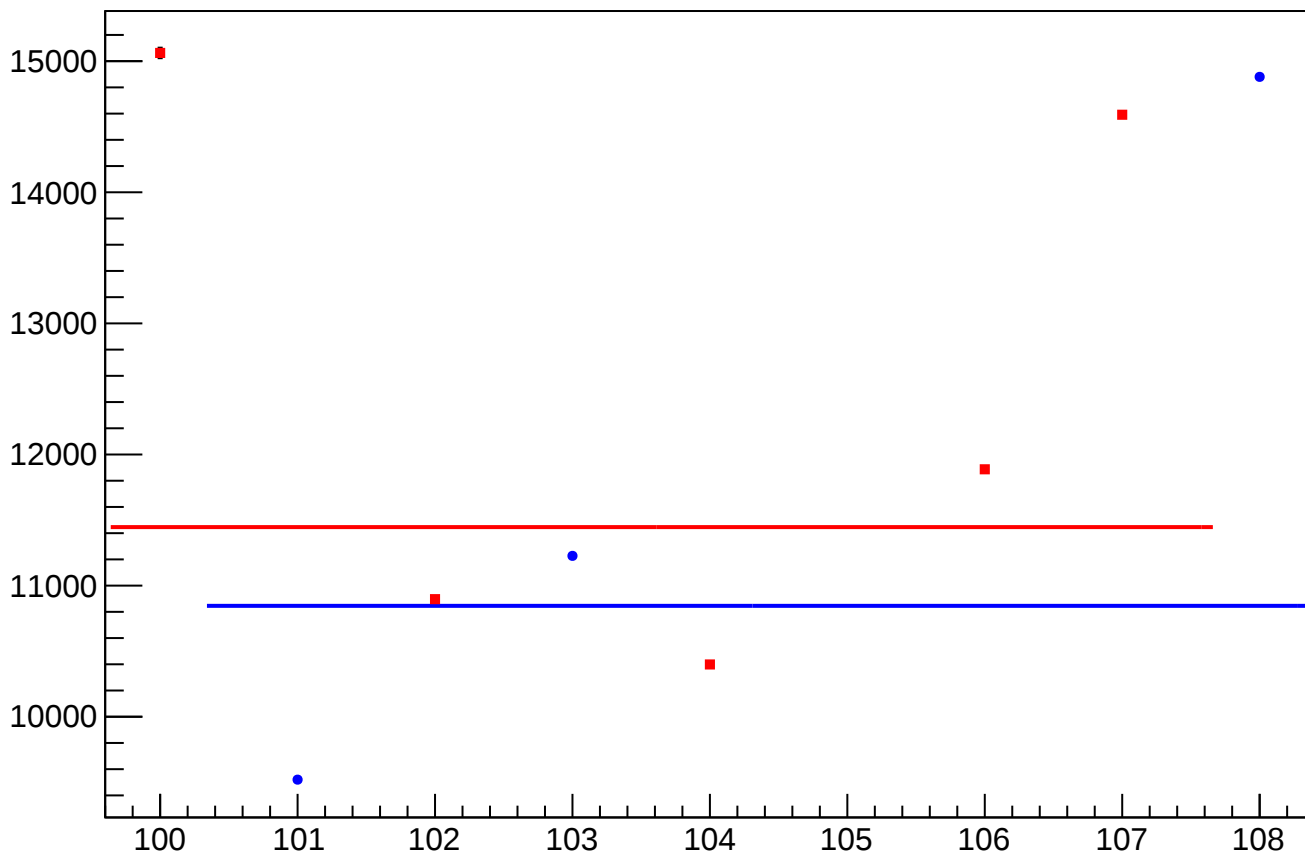
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -9.564+/-6.225  $\chi^2/\text{NDF}$ : 9.7/7

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

# diff\_bpm1X\_rms vs Slug



Right In: 10845.775 $\pm$ 6.280  $\chi^2$ /NDF: 79601.7/2

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

Right Out: 11446.313 $\pm$ 6.172  $\chi^2$ /NDF: 54664.3/4

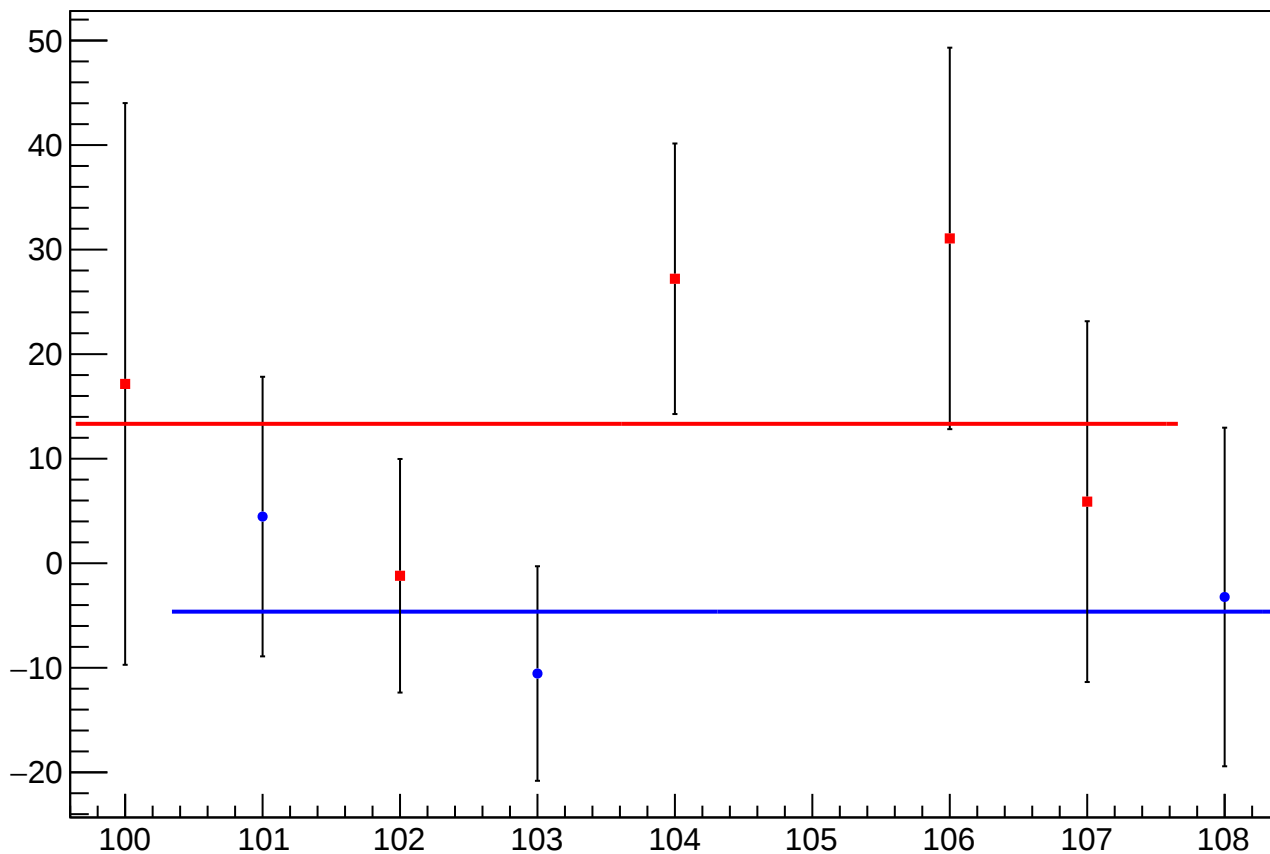
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 11151.256 $\pm$ 4.402  $\chi^2$ /NDF: 138917.8/7

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

# diff\_bpm1Y\_mean vs Slug



Right In:  $-4.630 \pm 7.273$   $\chi^2/\text{NDF}$ : 0.8/2

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

Right Out:  $13.335 \pm 6.783$   $\chi^2/\text{NDF}$ : 4.0/4

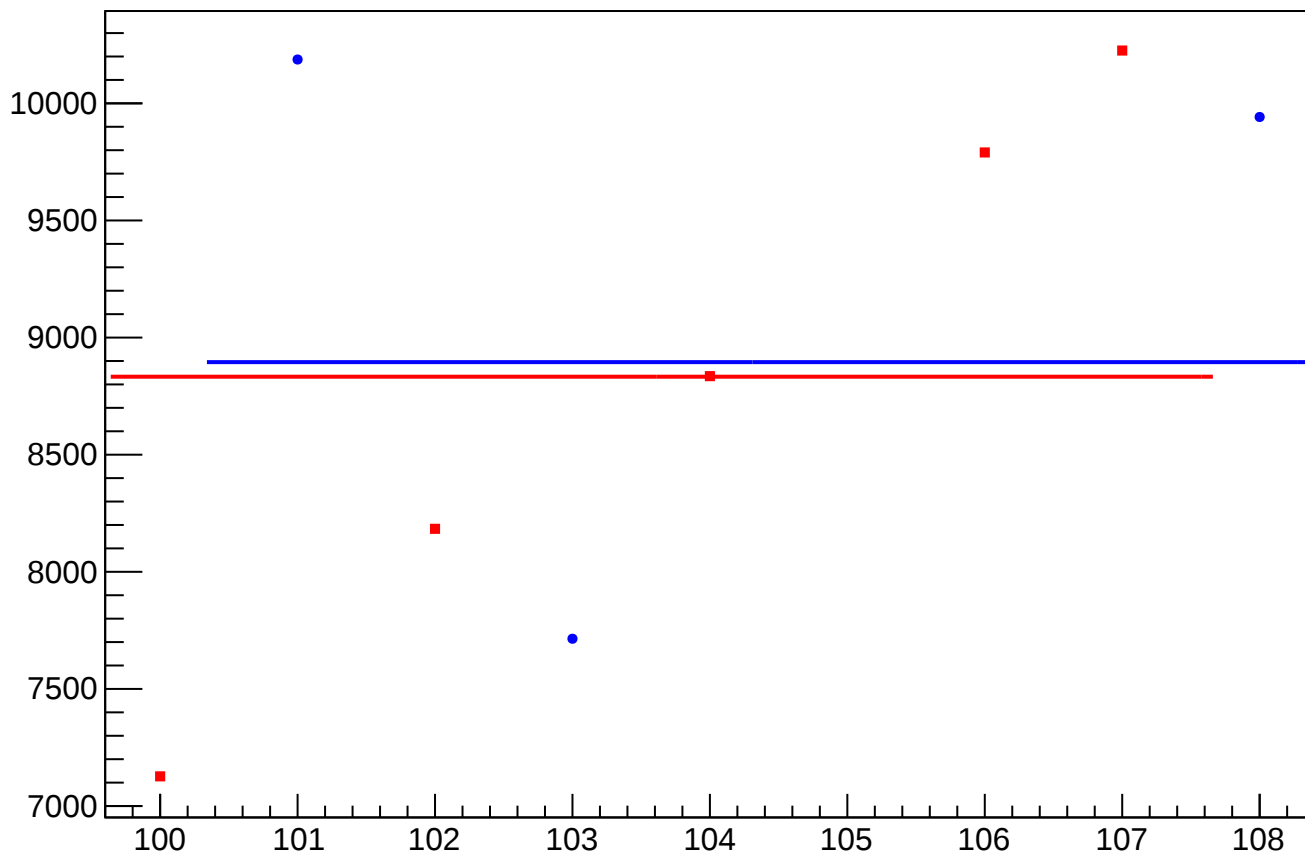
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $4.978 \pm 4.961$   $\chi^2/\text{NDF}$ : 8.1/7

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

# diff\_bpm1Y\_rms vs Slug



Right In: 8895.202 $\pm$ 5.143  $\chi^2$ /NDF: 53513.4/2

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

Right Out: 8832.971 $\pm$ 4.796  $\chi^2$ /NDF: 33357.0/4

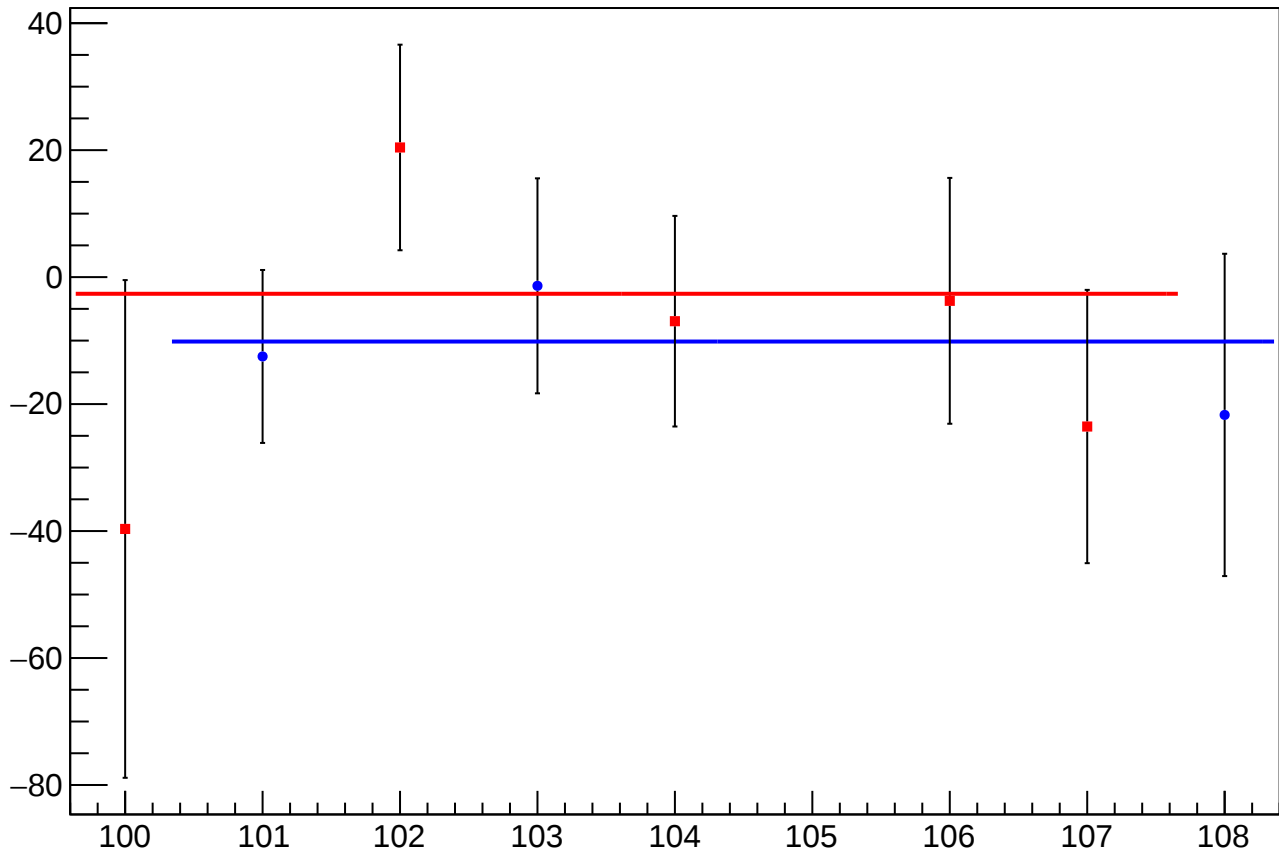
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 8861.919 $\pm$ 3.508  $\chi^2$ /NDF: 86948.6/7

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

# diff\_bpm11X\_mean vs Slug



Right In:  $-10.148 \pm 9.792$   $\chi^2/\text{NDF}$ : 0.5/2

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

Right Out:  $-2.625 \pm 8.796$   $\chi^2/\text{NDF}$ : 3.9/4

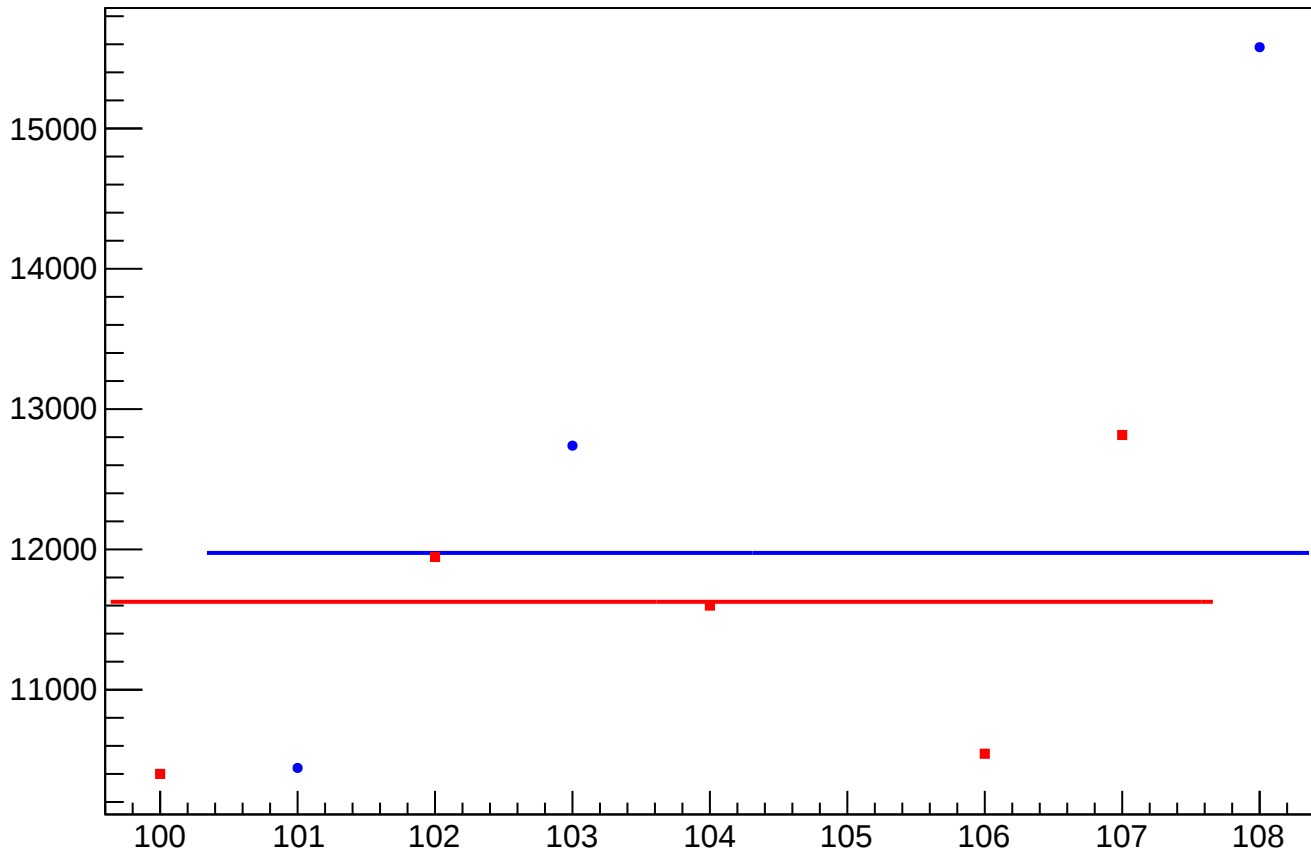
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-5.984 \pm 6.544$   $\chi^2/\text{NDF}$ : 4.8/7

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

# diff\_bpm11X\_rms vs Slug



Right In: 11975.102 $\pm$ 6.924  $\chi^2$ /NDF: 69707.5/2

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

Right Out: 11626.839 $\pm$ 6.220  $\chi^2$ /NDF: 15097.6/4

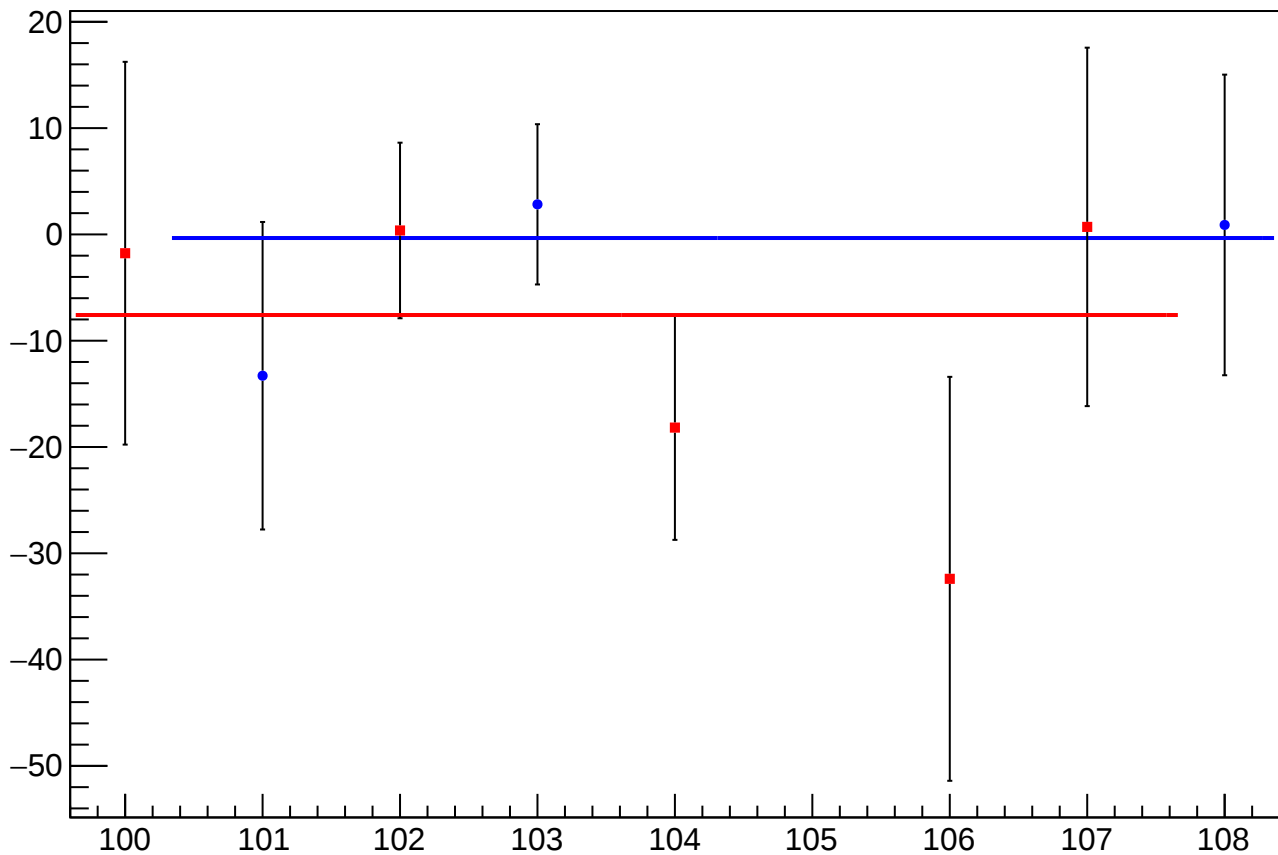
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 11782.359 $\pm$ 4.627  $\chi^2$ /NDF: 86205.3/7

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

# diff\_bpm11Y\_mean vs Slug



Right In:  $-0.339 \pm 6.044$   $\chi^2/\text{NDF}$ : 1.0/2

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

Right Out:  $-7.582 \pm 5.505$   $\chi^2/\text{NDF}$ : 4.0/4

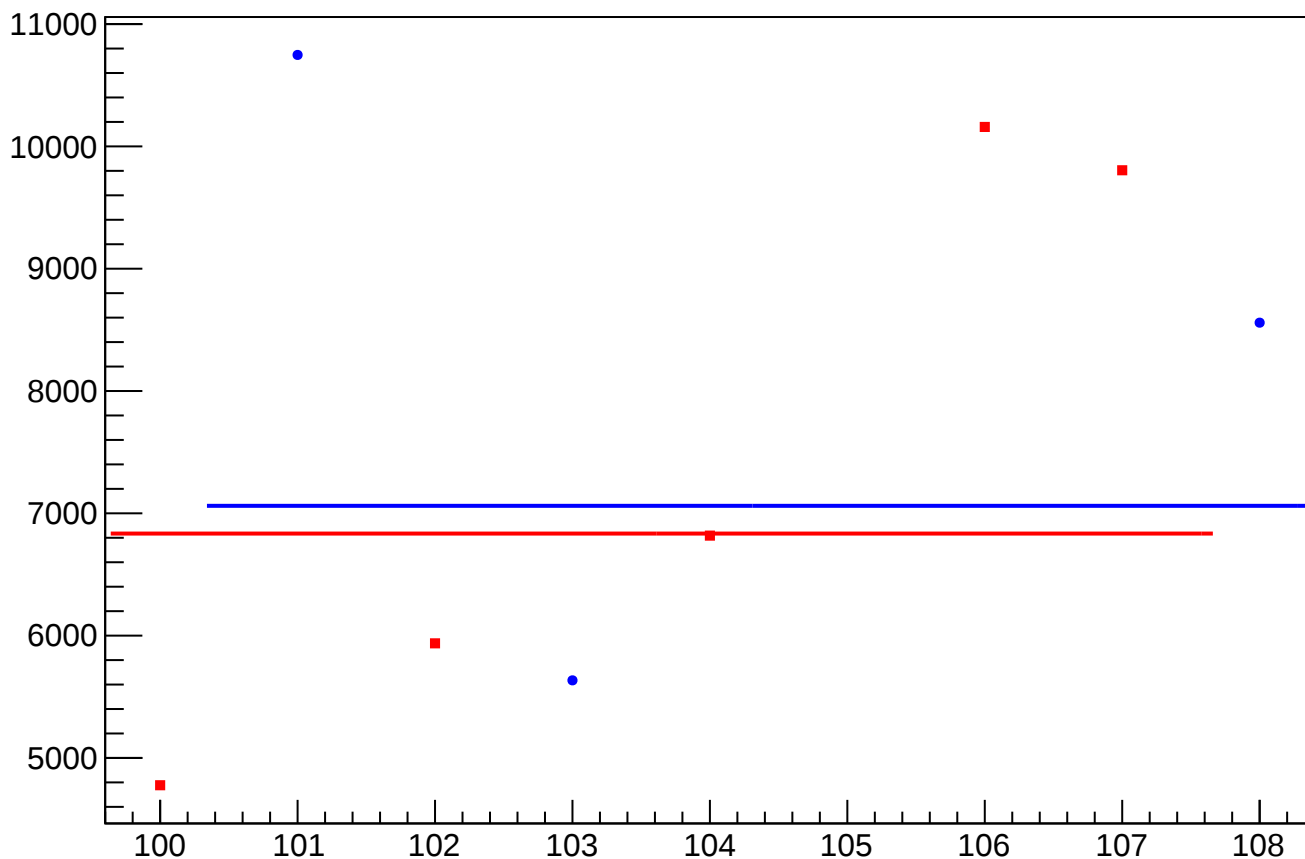
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-4.298 \pm 4.070$   $\chi^2/\text{NDF}$ : 5.8/7

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

# diff\_bpm11Y\_rms vs Slug



Right In: 7061.276 $\pm$ 4.274  $\chi^2$ /NDF: 223963.6/2

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

Right Out: 6834.493 $\pm$ 3.893  $\chi^2$ /NDF: 173037.5/4

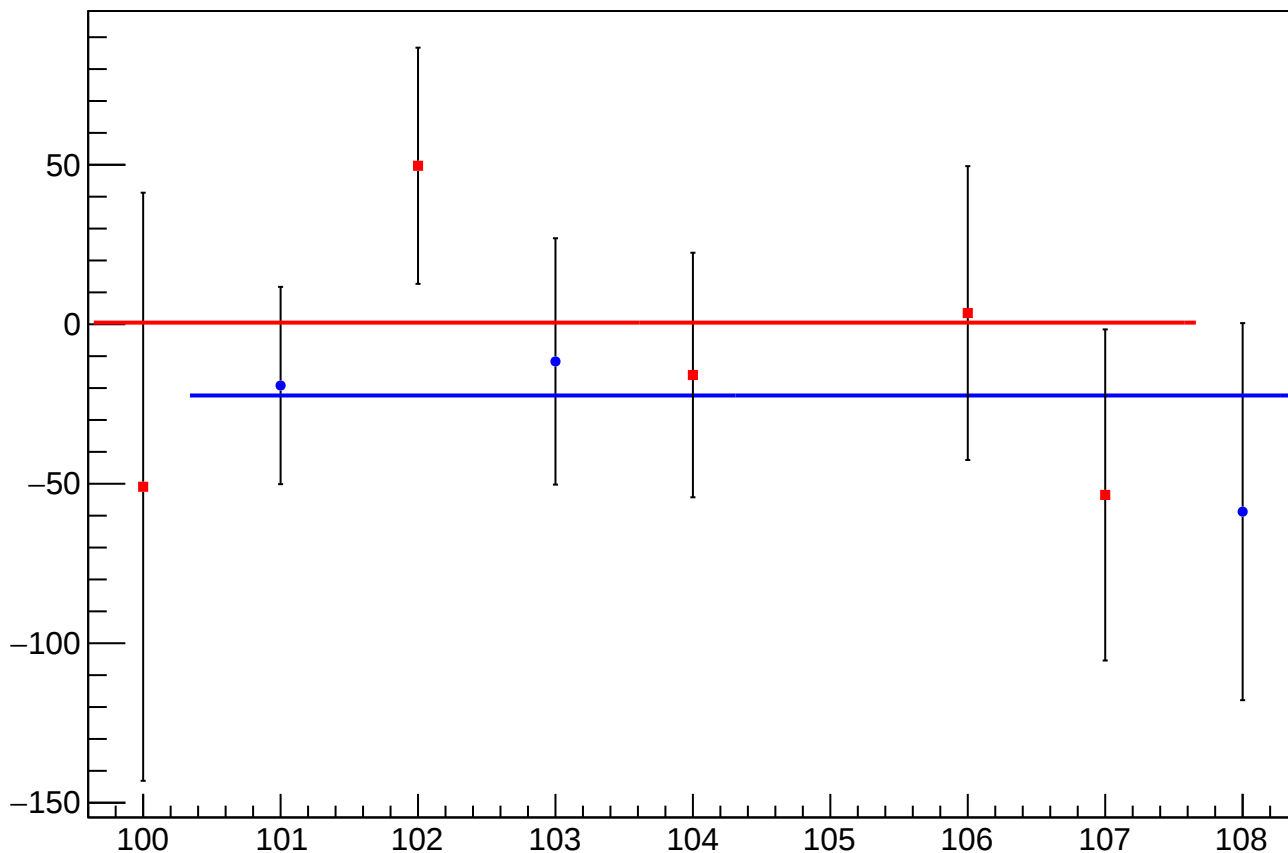
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 6937.327 $\pm$ 2.878  $\chi^2$ /NDF: 398540.1/7

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

diff\_bpm12X\_mean vs Slug



Right In: -22.324+/-22.349  $\chi^2/\text{NDF}$ : 0.5/2

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

Right Out: 0.520+/-20.539  $\chi^2/\text{NDF}$ : 3.3/4

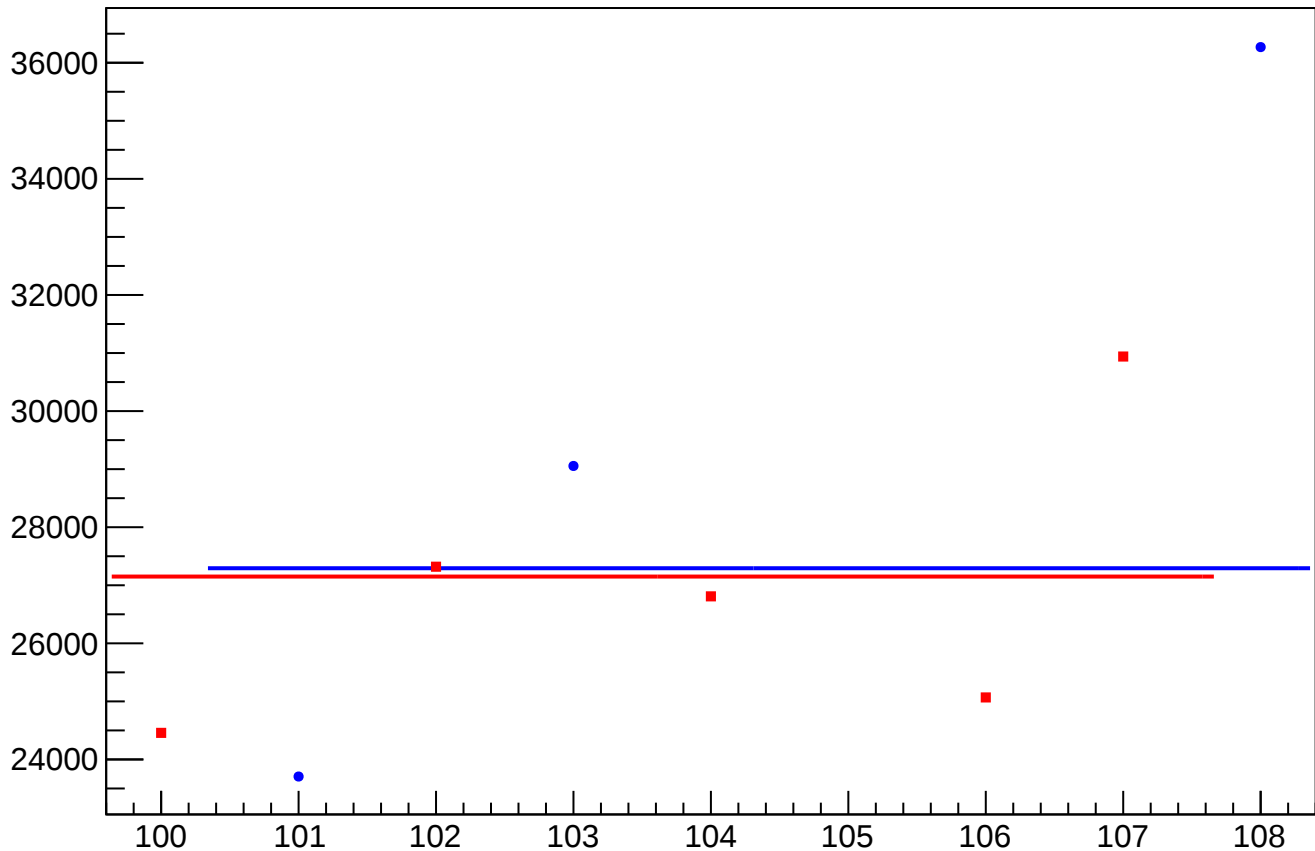
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -9.940+/-15.123  $\chi^2/\text{NDF}$ : 4.4/7

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

# diff\_bpm12X\_rms vs Slug



Right In: 27293.521+/-15.803  $\chi^2/\text{NDF}$ : 77198.2/2

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

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

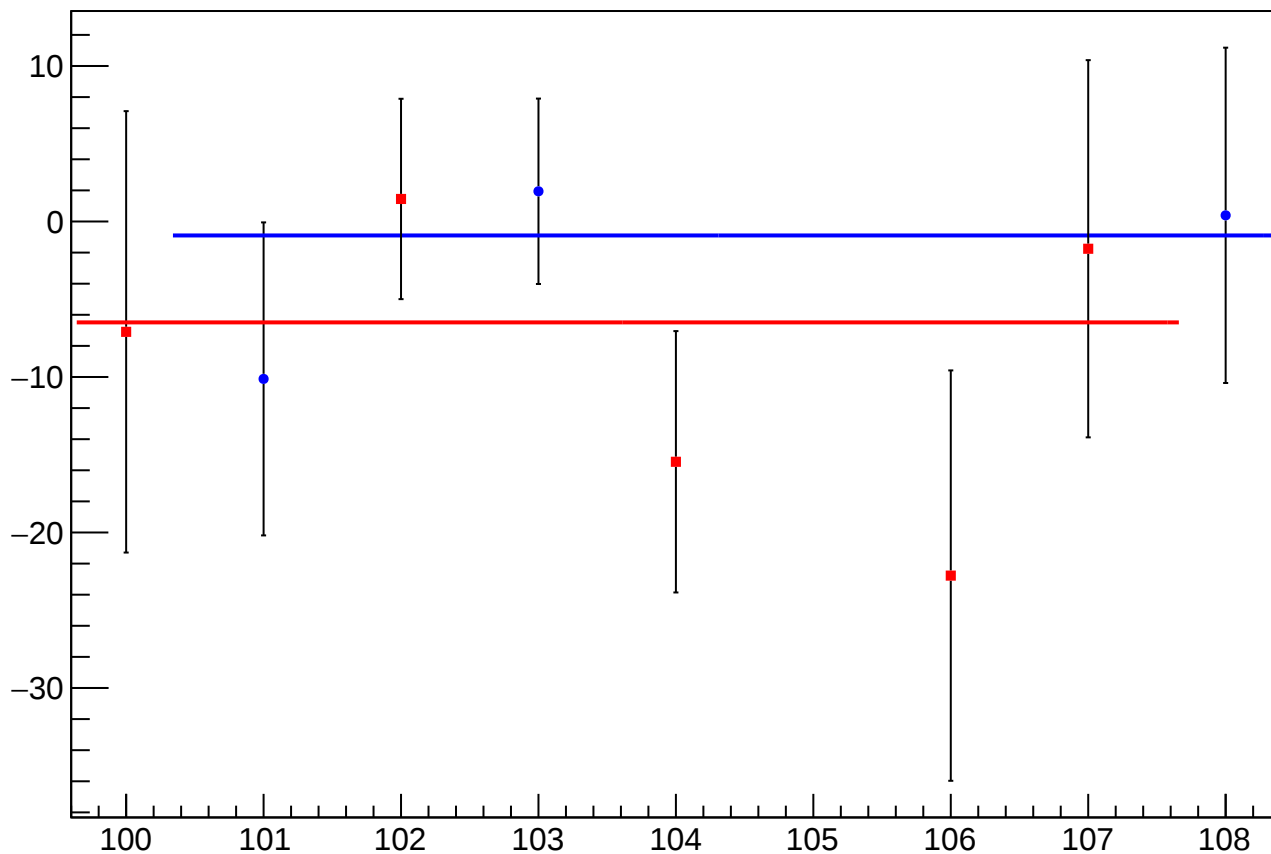
Right Out: 27150.145+/-14.523  $\chi^2/\text{NDF}$ : 16655.0/4

All: 27215.793+/-10.693  $\chi^2/\text{NDF}$ : 93897.8/7

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

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

# diff\_bpm12Y\_mean vs Slug



Right In: -0.898+/-4.632  $\chi^2$ /NDF: 1.1/2

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

Right Out: -6.489+/-4.235  $\chi^2$ /NDF: 4.3/4

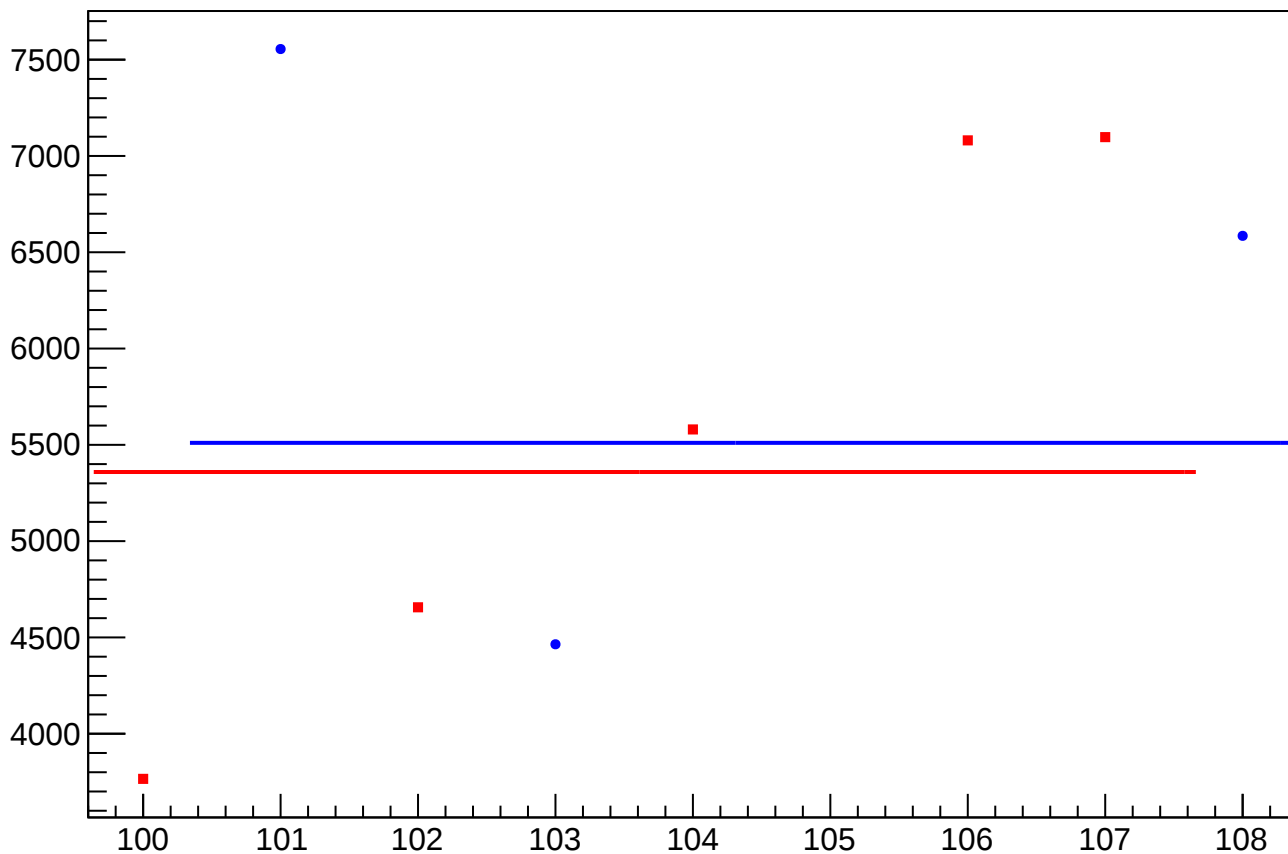
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

All: -3.943+/-3.125  $\chi^2$ /NDF: 6.2/7

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

# diff\_bpm12Y\_rms vs Slug



Right In: 5510.330+/-3.275  $\chi^2/\text{NDF}$ : 163993.5/2

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

Right Out: 5358.943+/-2.995  $\chi^2/\text{NDF}$ : 125531.3/4

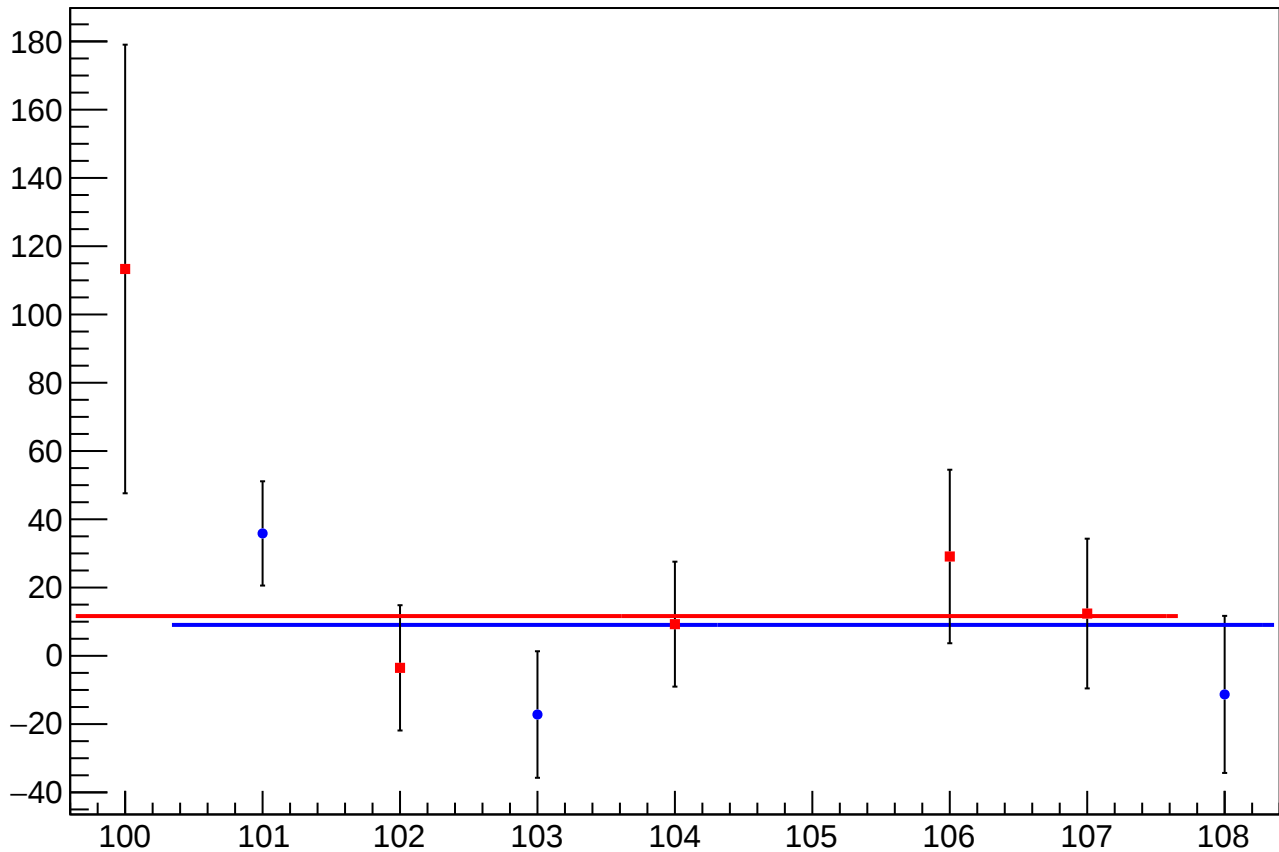
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 5427.875+/-2.210  $\chi^2/\text{NDF}$ : 290688.6/7

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

# diff\_bpm16X\_mean vs Slug



Right In: 9.058 $\pm$ 10.491  $\chi^2$ /NDF: 5.9/2

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

Right Out: 11.646 $\pm$ 10.095  $\chi^2$ /NDF: 3.6/4

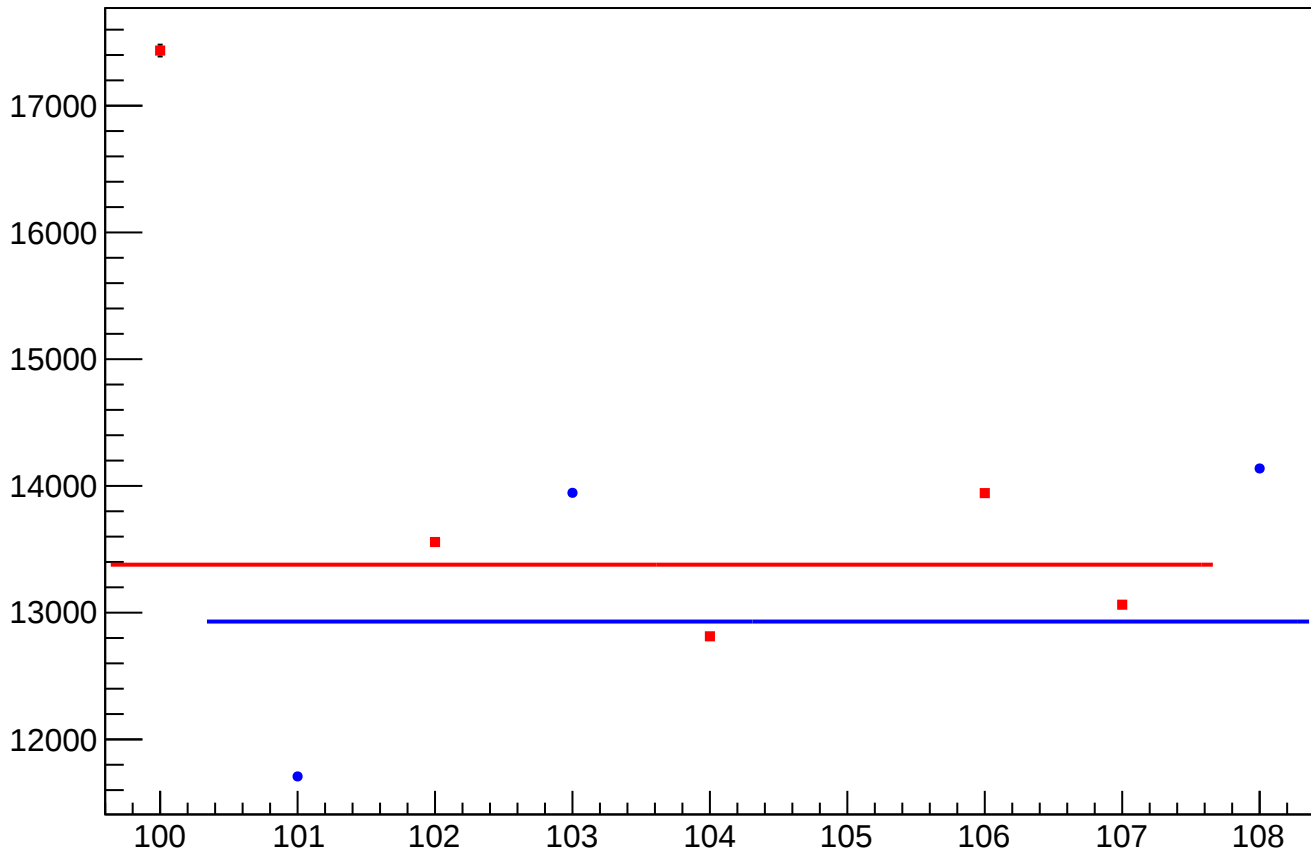
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 10.402 $\pm$ 7.274  $\chi^2$ /NDF: 9.5/7

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

# diff\_bpm16X\_rms vs Slug



Right In: 12929.867 $\pm$ 7.418  $\chi^2$ /NDF: 24318.2/2

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

Right Out: 13378.675 $\pm$ 7.138  $\chi^2$ /NDF: 11120.4/4

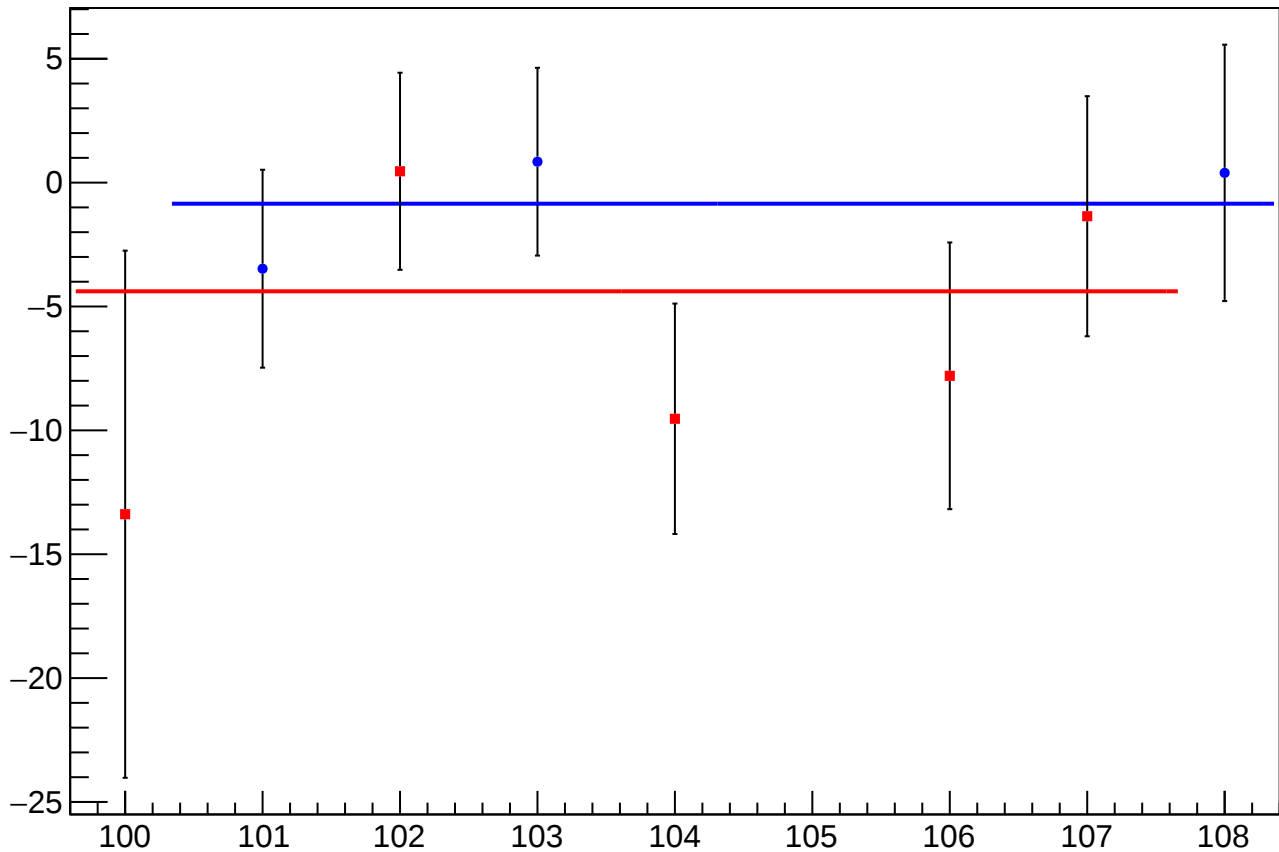
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 13162.902 $\pm$ 5.144  $\chi^2$ /NDF: 37339.0/7

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

# diff\_bpm16Y\_mean vs Slug



Right In:  $-0.850 \pm 2.428$   $\chi^2/\text{NDF}$ : 0.7/2

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

Right Out:  $-4.387 \pm 2.262$   $\chi^2/\text{NDF}$ : 4.2/4

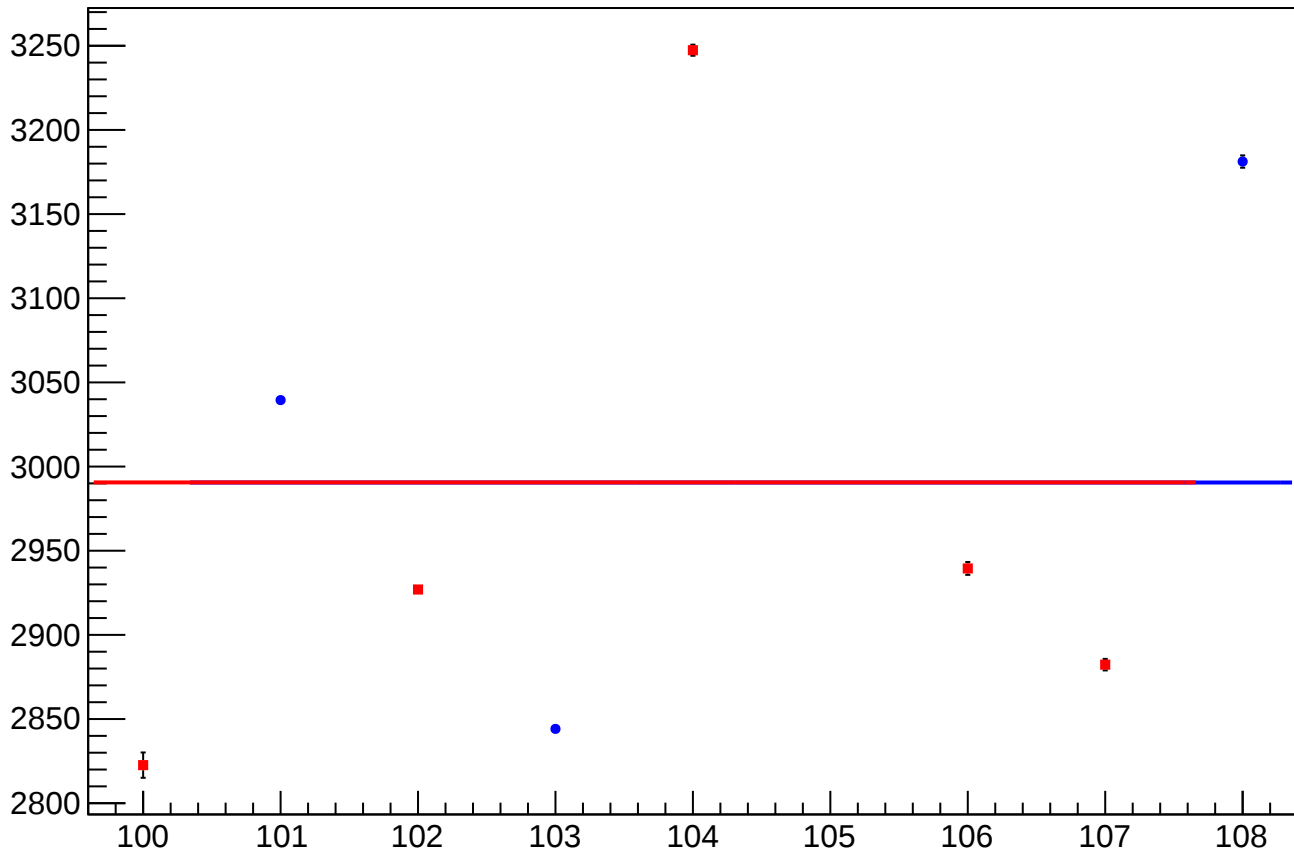
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-2.743 \pm 1.655$   $\chi^2/\text{NDF}$ : 6.0/7

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

# diff\_bpm16Y\_rms vs Slug



Right In: 2990.528 $\pm$ 1.717  $\chi^2$ /NDF: 5999.3/2

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

Right Out: 2990.580 $\pm$ 1.600  $\chi^2$ /NDF: 8288.1/4

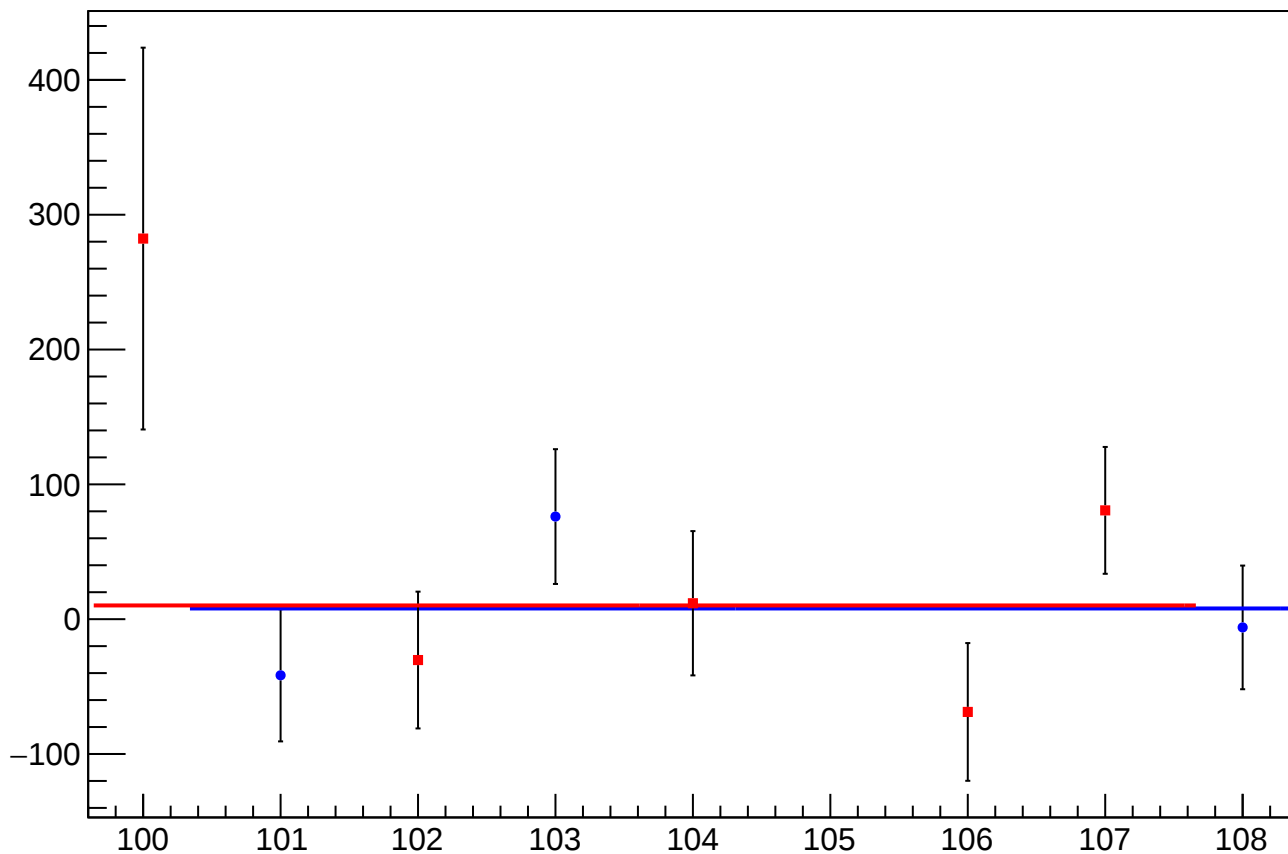
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 2990.556 $\pm$ 1.170  $\chi^2$ /NDF: 14287.5/7

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

# diff\_bpm1p02bX\_mean vs Slug



Right In: 7.940 $\pm$ 27.829  $\chi^2$ /NDF: 3.0/2

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

Right Out: 10.182 $\pm$ 24.825  $\chi^2$ /NDF: 9.0/4

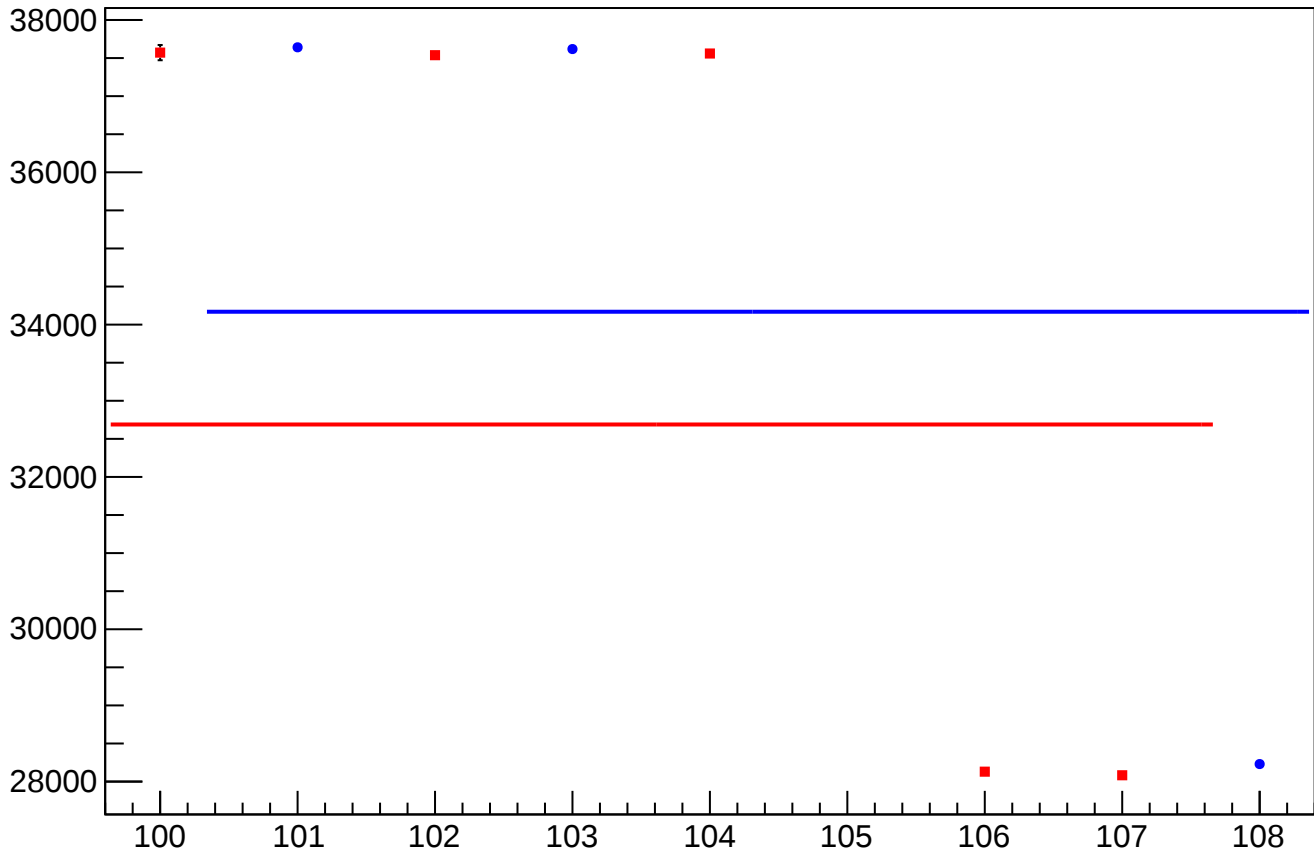
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 9.188 $\pm$ 18.525  $\chi^2$ /NDF: 11.9/7

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

# diff\_bpm1p02bX\_rms vs Slug



Right In: 34169.209+/-19.678  $\chi^2/\text{NDF}$ : 53081.2/2

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

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

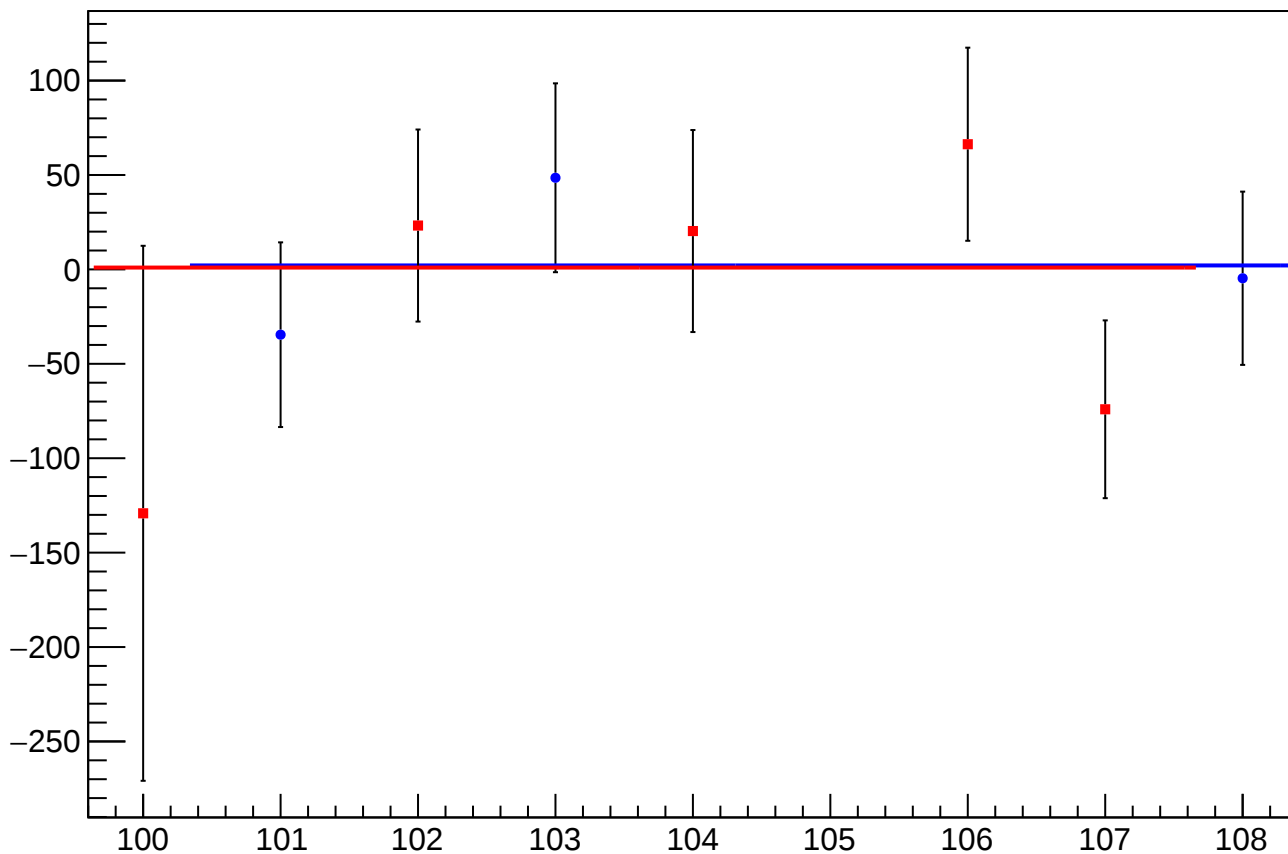
Right Out: 32688.753+/-17.554  $\chi^2/\text{NDF}$ : 72315.3/4

All: 33344.805+/-13.099  $\chi^2/\text{NDF}$ : 128548.5/7

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

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

# diff\_bpm1p02bY\_mean vs Slug



Right In: 2.097 $\pm$ 27.810  $\chi^2$ /NDF: 1.4/2

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

Right Out: 0.973 $\pm$ 24.850  $\chi^2$ /NDF: 5.3/4

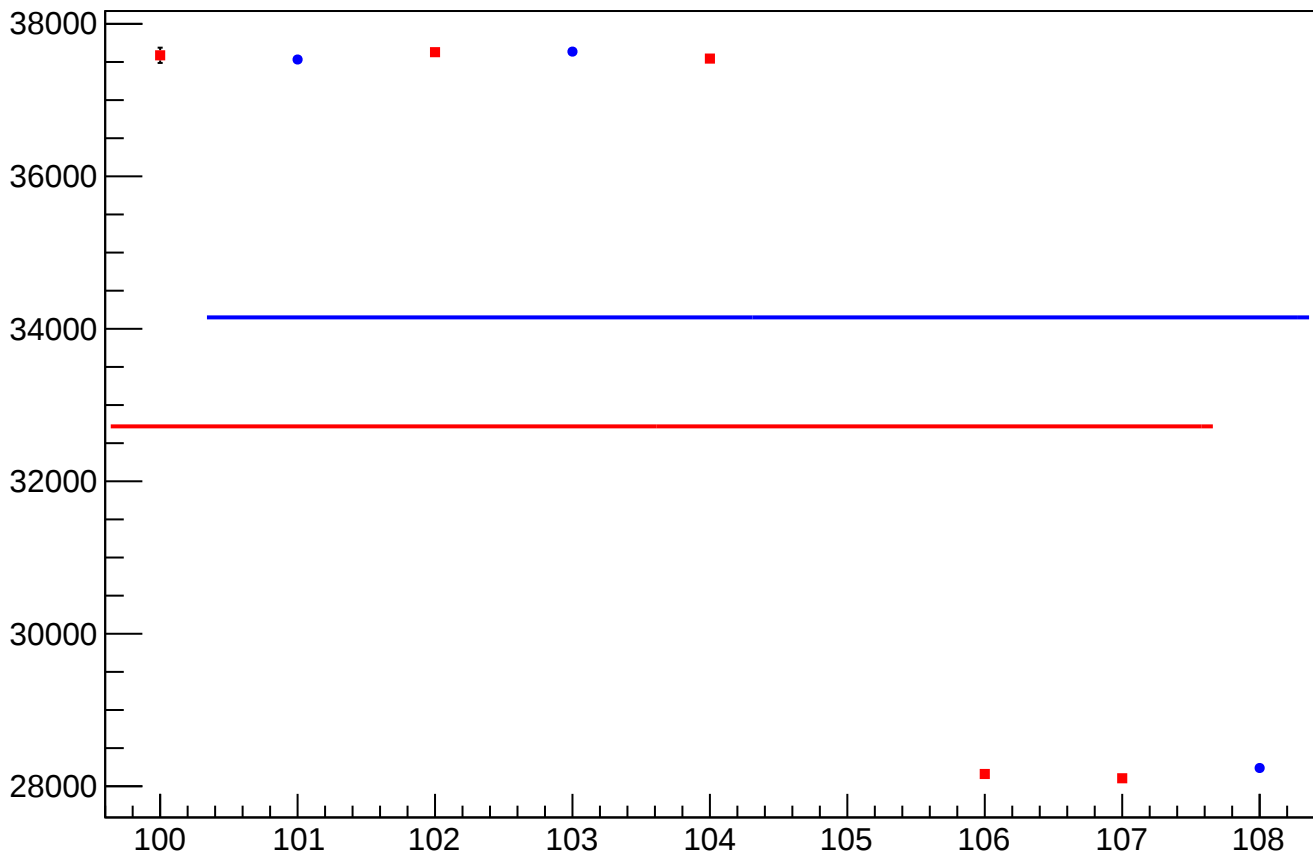
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1.472 $\pm$ 18.530  $\chi^2$ /NDF: 6.8/7

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

# diff\_bpm1p02bY\_rms vs Slug



Right In: 34149.898+/-19.665  $\chi^2/\text{NDF}$ : 52480.9/2

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

Right Out: 32720.316+/-17.571  $\chi^2/\text{NDF}$ : 72378.7/4

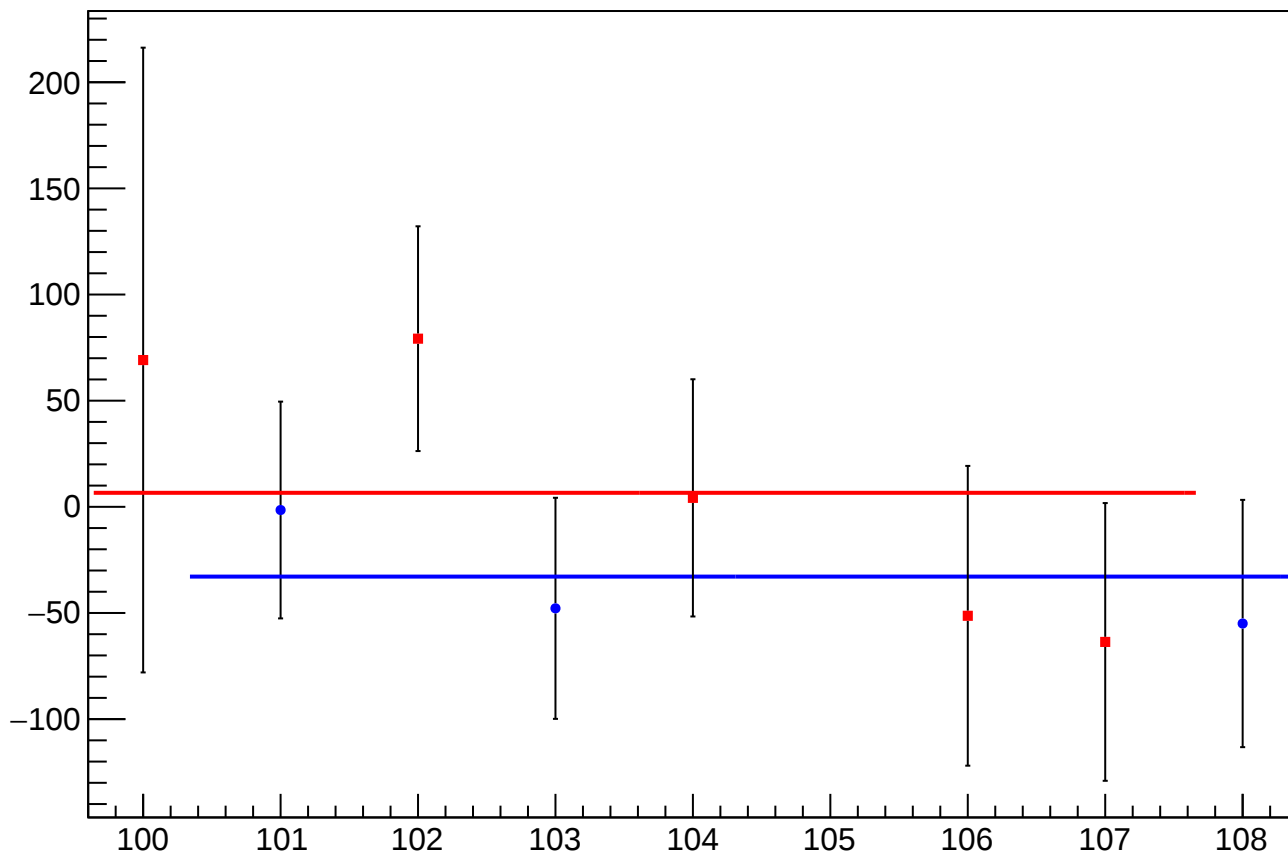
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 33354.983+/-13.103  $\chi^2/\text{NDF}$ : 127798.2/7

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

# diff\_bpm1p03aX\_mean vs Slug



Right In:  $-32.863 \pm 30.901$   $\chi^2/\text{NDF}$ : 0.6/2

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

Right Out:  $6.602 \pm 29.390$   $\chi^2/\text{NDF}$ : 3.9/4

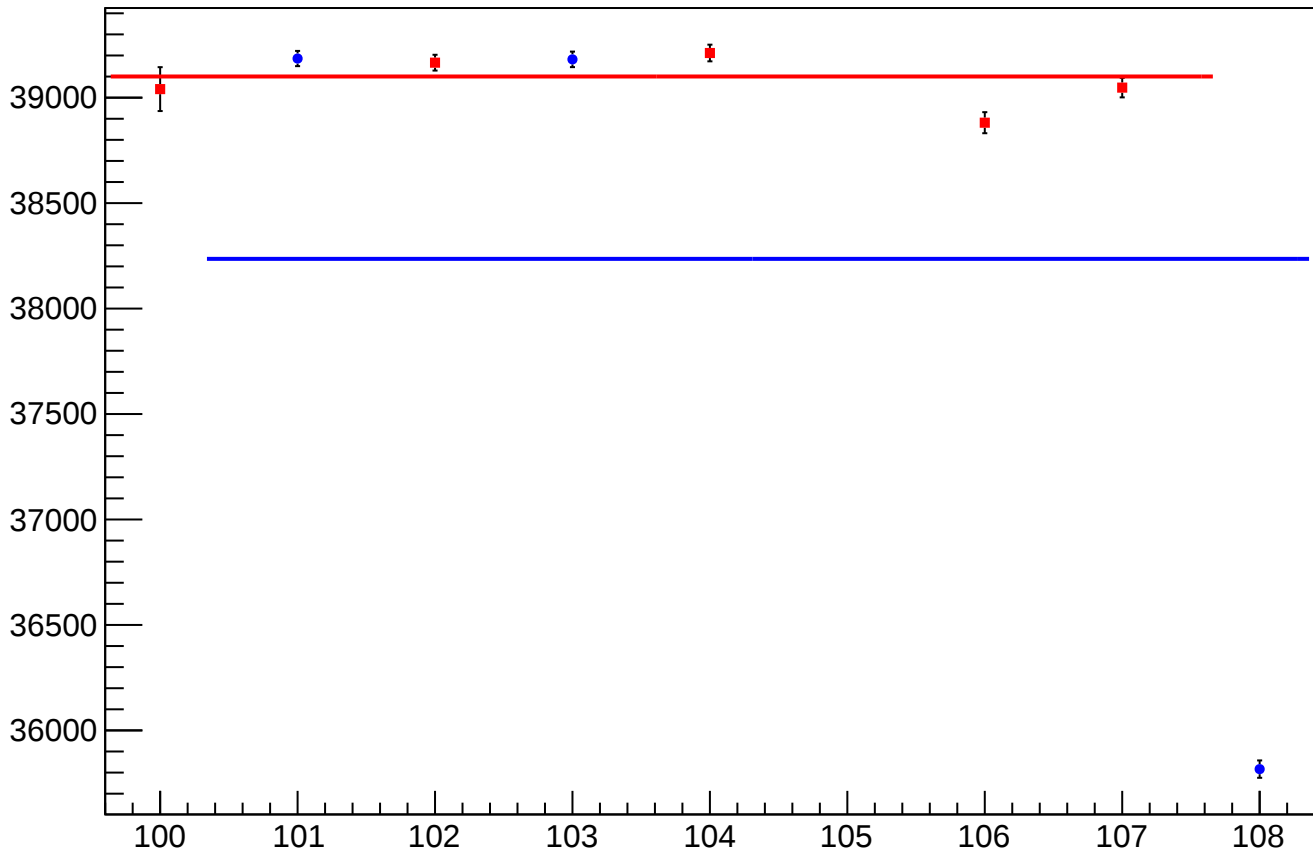
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-12.142 \pm 21.296$   $\chi^2/\text{NDF}$ : 5.3/7

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

# diff\_bpm1p03aX\_rms vs Slug



Right In: 38235.700 $\pm$ 21.850  $\chi^2$ /NDF: 4803.1/2

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

Right Out: 39100.406 $\pm$ 20.782  $\chi^2$ /NDF: 31.9/4

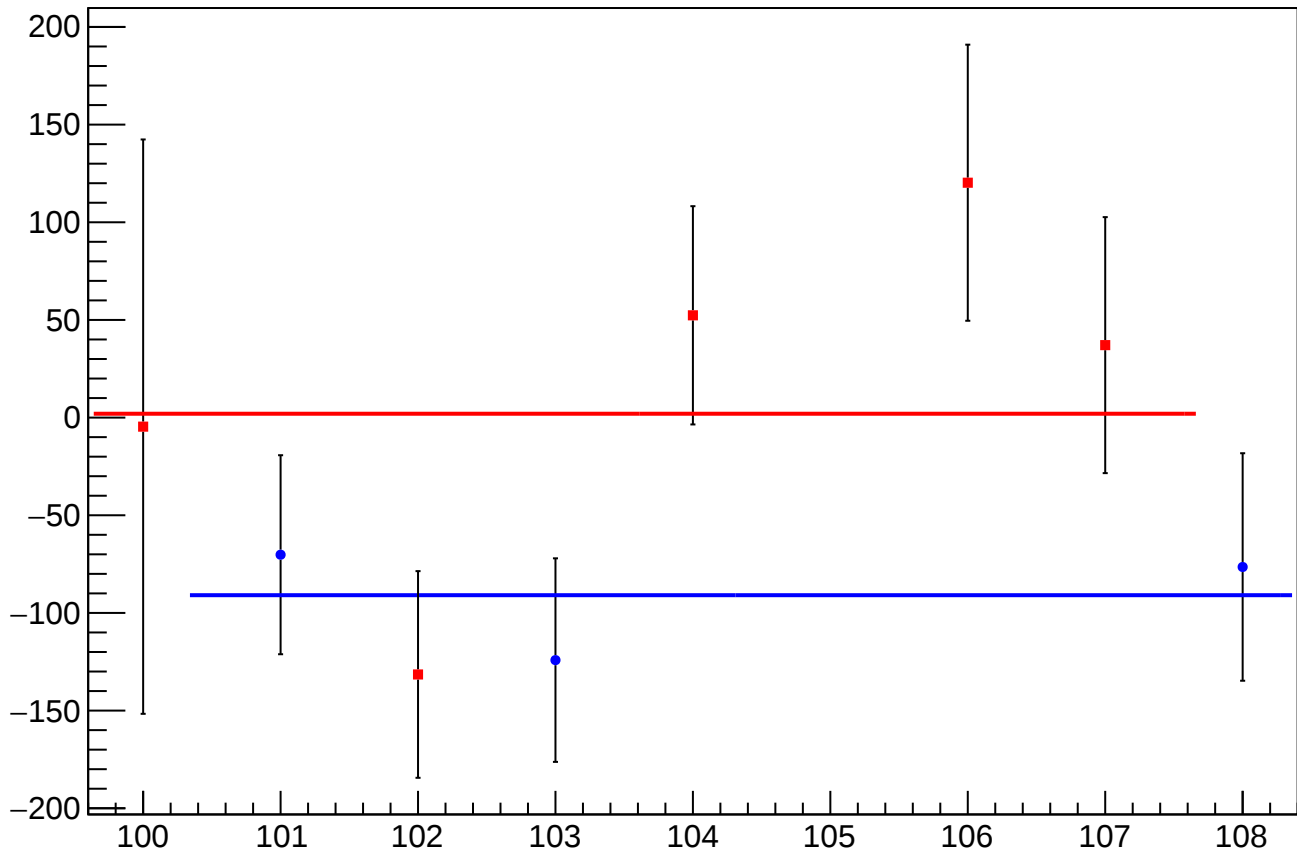
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 38689.715 $\pm$ 15.059  $\chi^2$ /NDF: 5657.3/7

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

# diff\_bpm1p03aY\_mean vs Slug



Right In:  $-90.919 \pm 30.883$   $\chi^2/\text{NDF}: 0.6/2$

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

Right Out:  $1.981 \pm 29.399$   $\chi^2/\text{NDF}: 10.3/4$

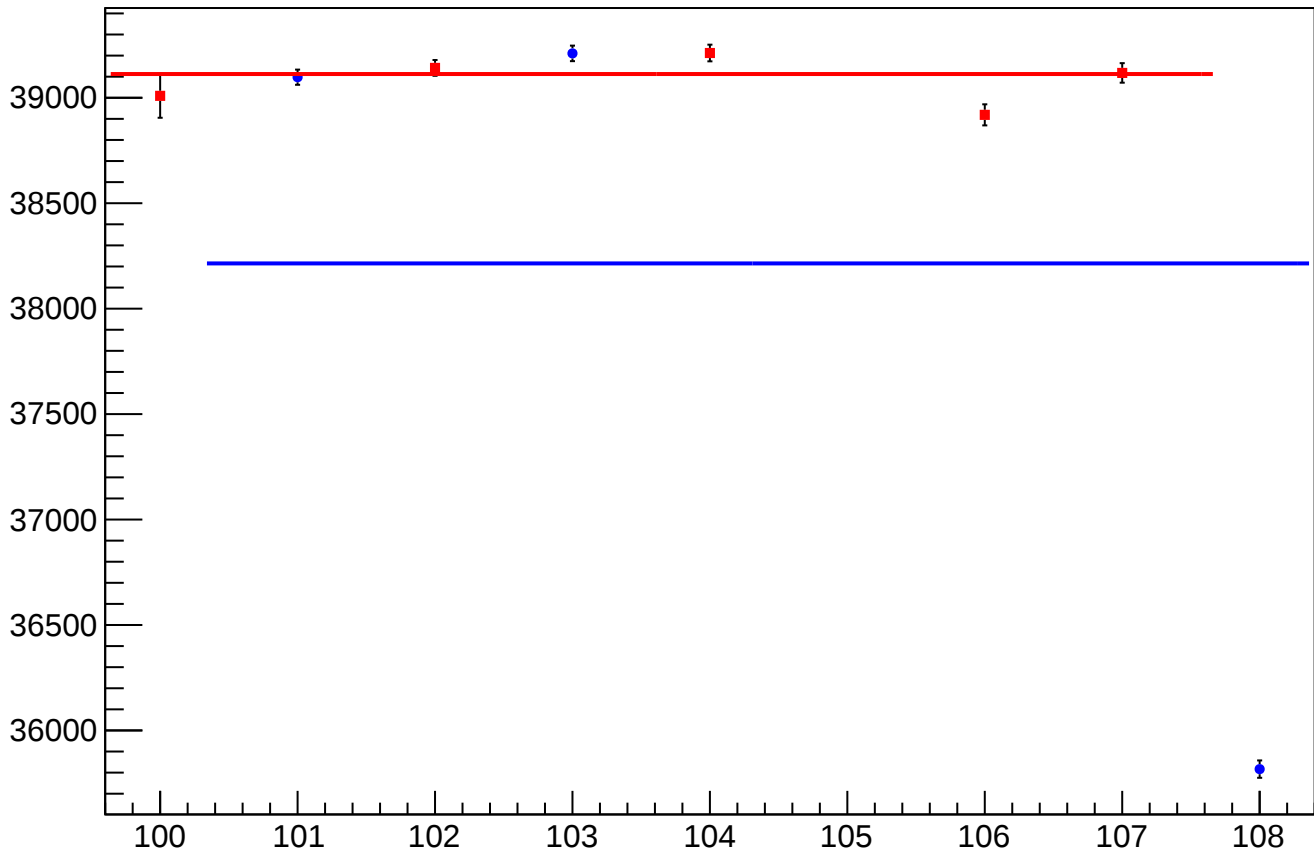
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

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

All:  $-42.184 \pm 21.294$   $\chi^2/\text{NDF}: 15.7/7$

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

# diff\_bpm1p03aY\_rms vs Slug



Right In: 38214.537 $\pm$ 21.838  $\chi^2$ /NDF: 4722.4/2

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

Right Out: 39112.591 $\pm$ 20.788  $\chi^2$ /NDF: 23.0/4

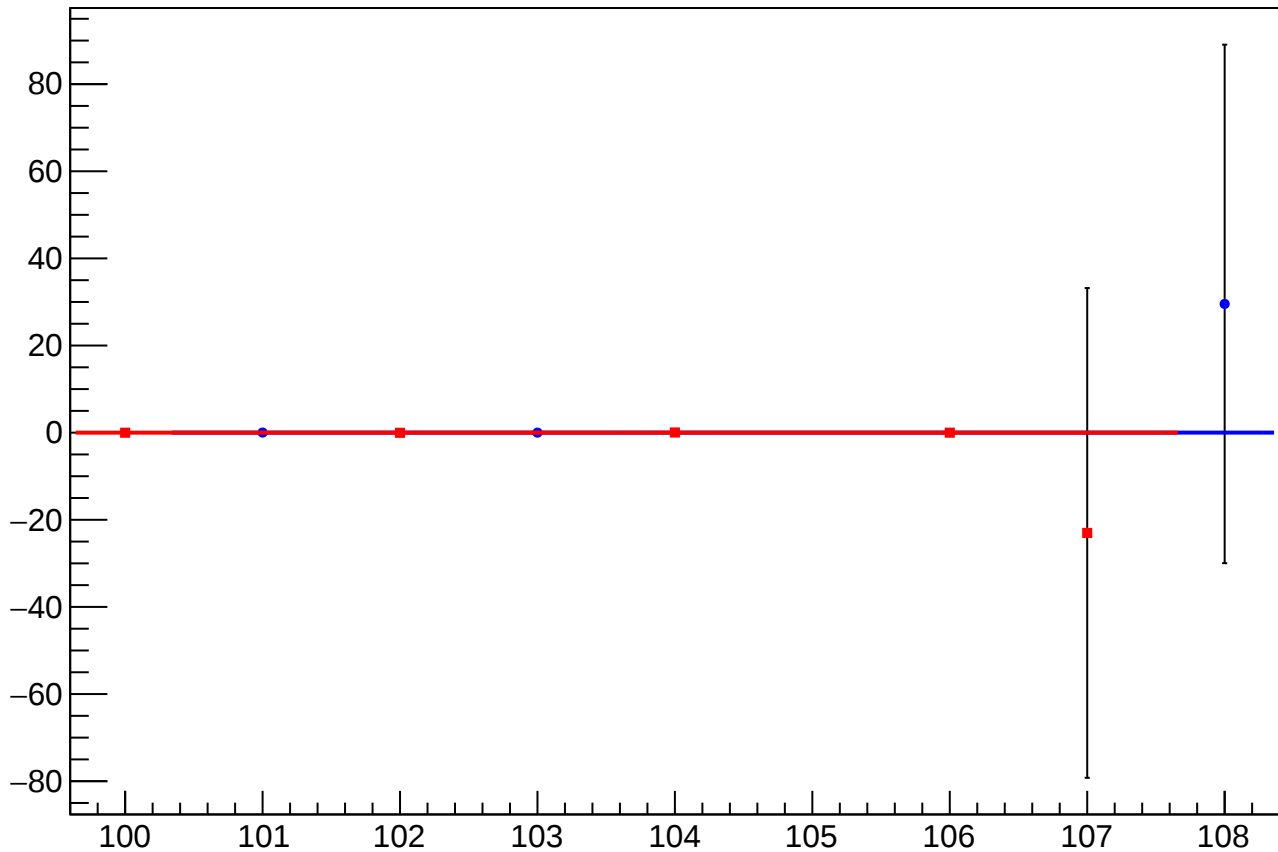
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 38685.657 $\pm$ 15.057  $\chi^2$ /NDF: 5632.5/7

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

# diff\_cav4bX\_mean vs Slug



Right In: 0.013 $\pm$ 0.017  $\chi^2$ /NDF: 0.4/2

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

Right Out: 0.003 $\pm$ 0.016  $\chi^2$ /NDF: 5.0/4

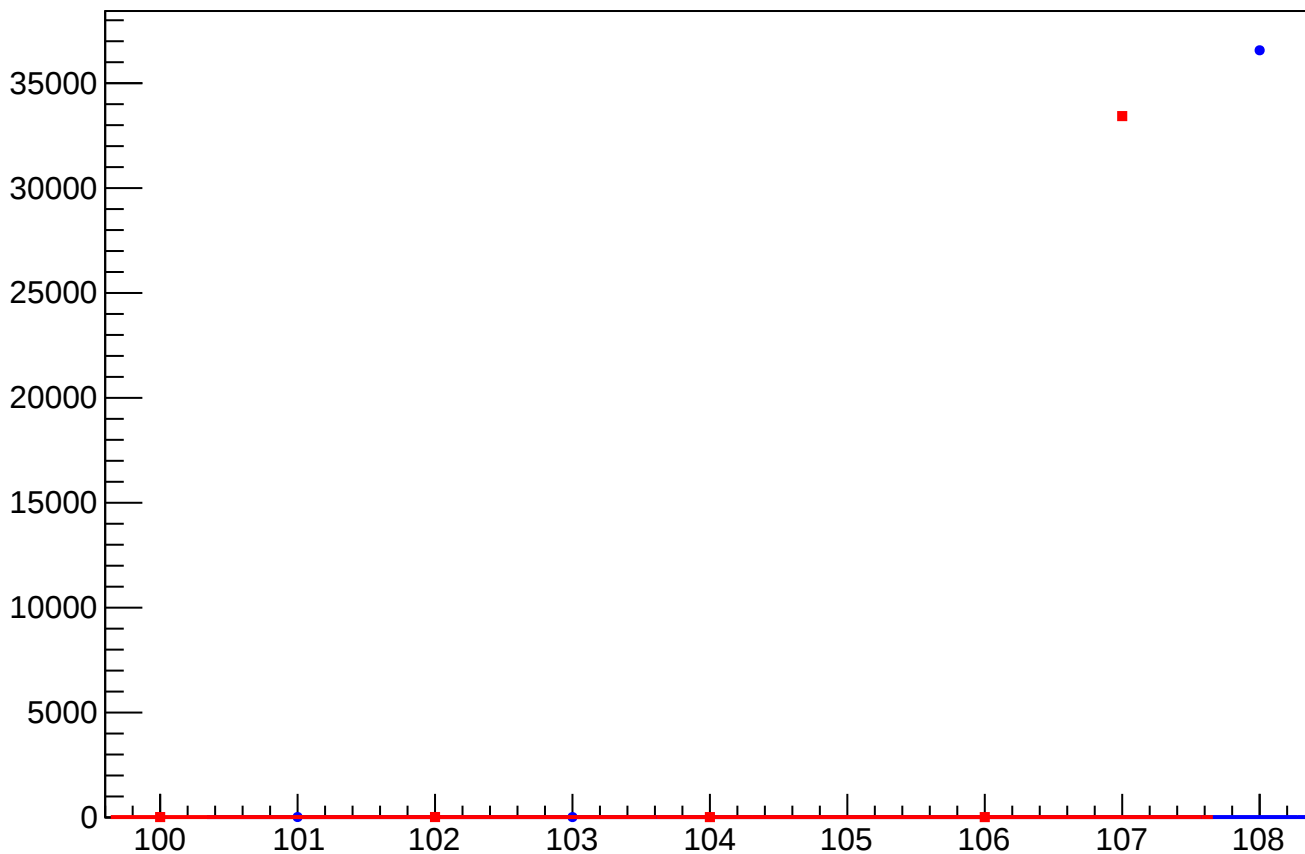
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.008 $\pm$ 0.012  $\chi^2$ /NDF: 5.6/7

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

# diff\_cav4bX\_rms vs Slug



Right In: 18.563+/-0.012  $\chi^2/\text{NDF}$ : 766284.2/2

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

Right Out: 18.245+/-0.011  $\chi^2/\text{NDF}$ : 719353.6/4

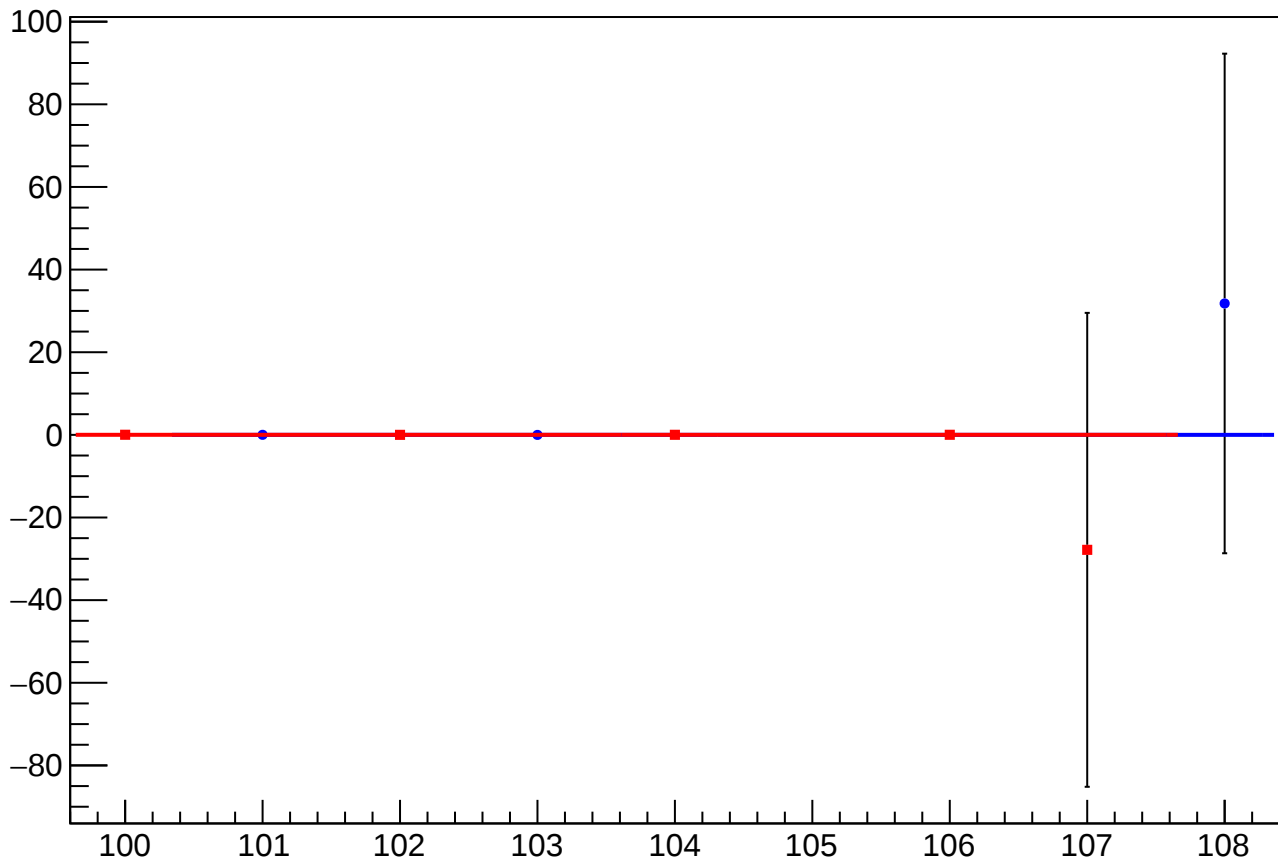
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 18.392+/-0.008  $\chi^2/\text{NDF}$ : 1486001.1/7

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

# diff\_cav4bY\_mean vs Slug



Right In: 0.001 $\pm$ 0.009  $\chi^2$ /NDF: 1.4/2

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

Right Out: 0.014 $\pm$ 0.009  $\chi^2$ /NDF: 0.9/4

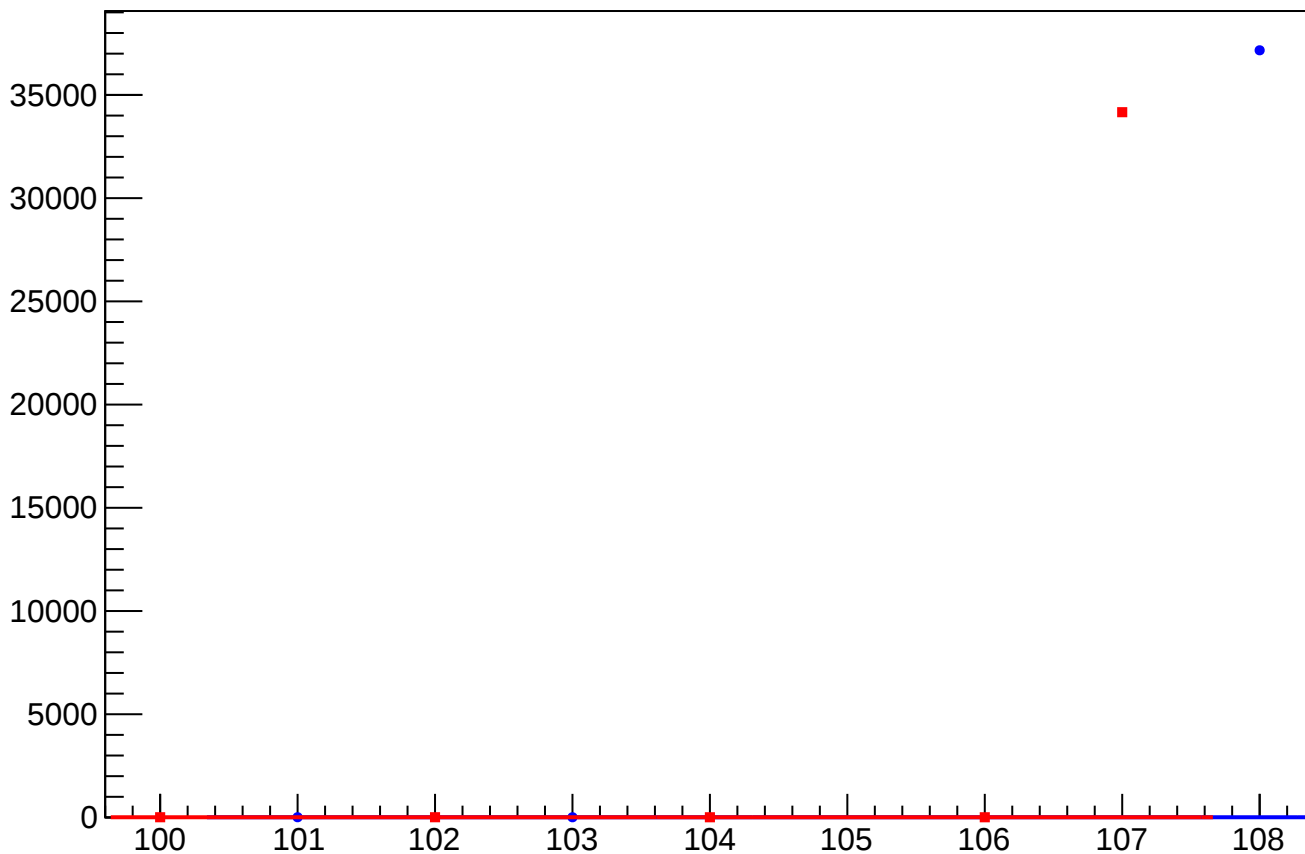
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.008 $\pm$ 0.006  $\chi^2$ /NDF: 3.4/7

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

# diff\_cav4bY\_rms vs Slug



Right In: 9.856+/-0.007  $\chi^2/\text{NDF}$ : 766266.3/2

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

Right Out: 9.781+/-0.006  $\chi^2/\text{NDF}$ : 723288.6/4

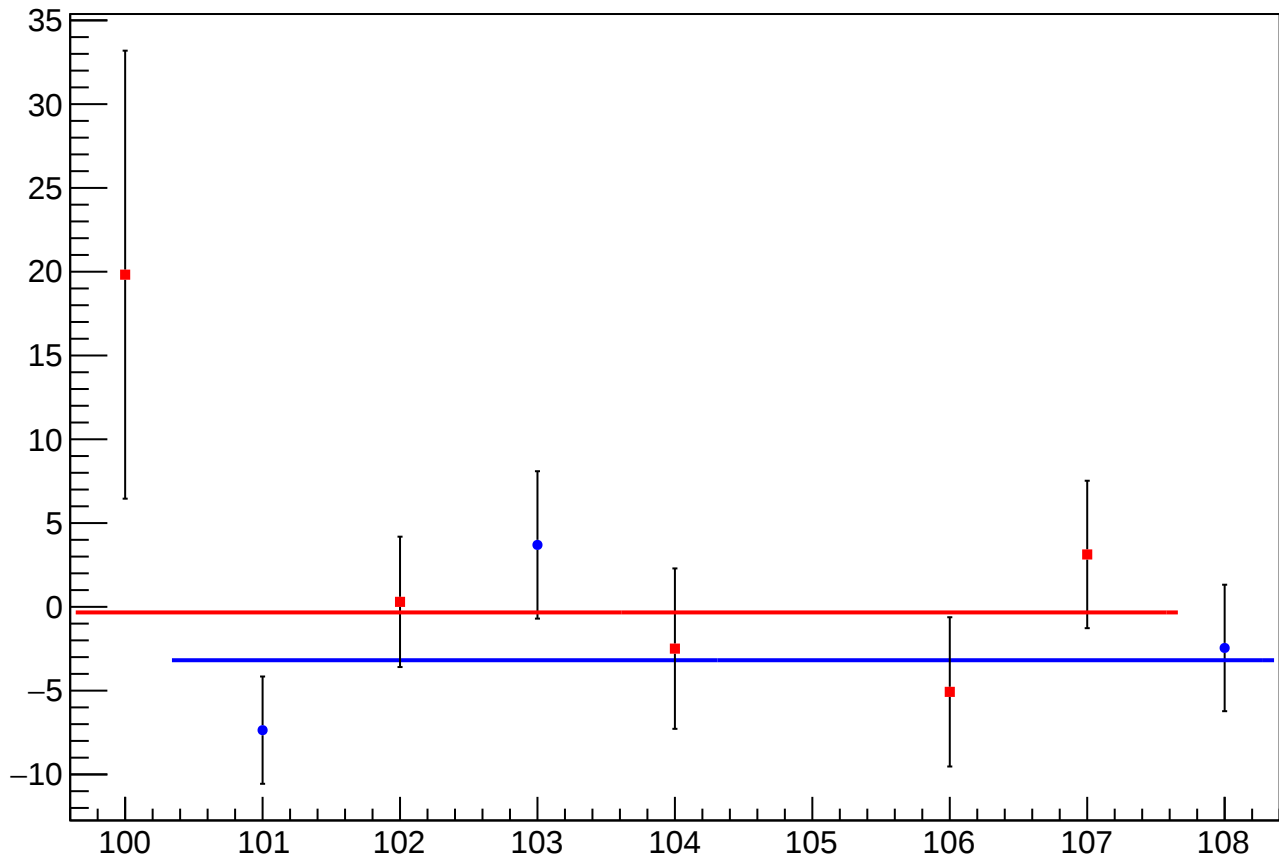
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 9.816+/-0.004  $\chi^2/\text{NDF}$ : 1489624.6/7

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

# diff\_cav4cX\_mean vs Slug



Right In:  $-3.185 \pm 2.135$   $\chi^2/\text{NDF}: 4.2/2$

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

Right Out:  $-0.333 \pm 2.145$   $\chi^2/\text{NDF}: 4.3/4$

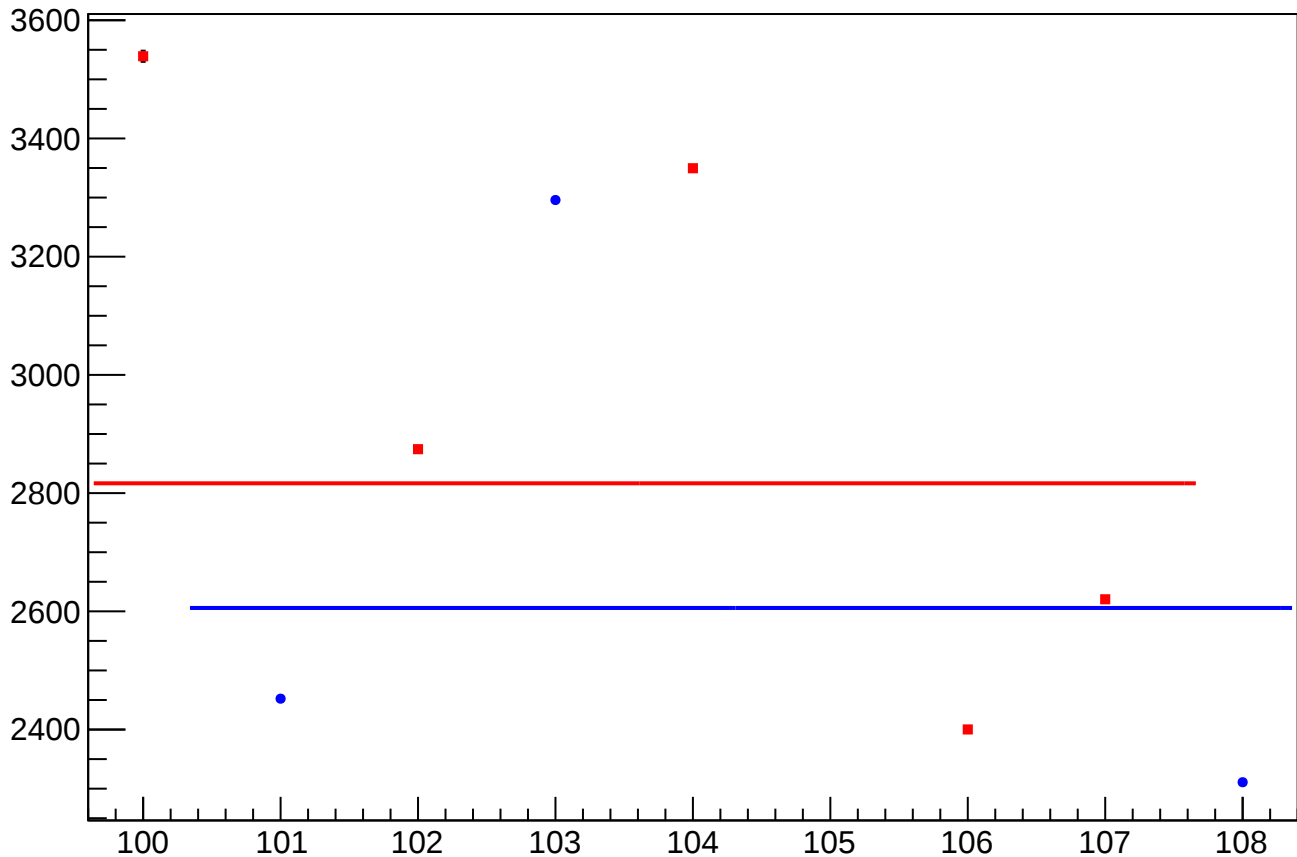
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

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

All:  $-1.766 \pm 1.513$   $\chi^2/\text{NDF}: 9.3/7$

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

# diff\_cav4cX\_rms vs Slug



Right In: 2605.711+/-1.509  $\chi^2/\text{NDF}$ : 66044.2/2

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

Right Out: 2816.597+/-1.517  $\chi^2/\text{NDF}$ : 52542.9/4

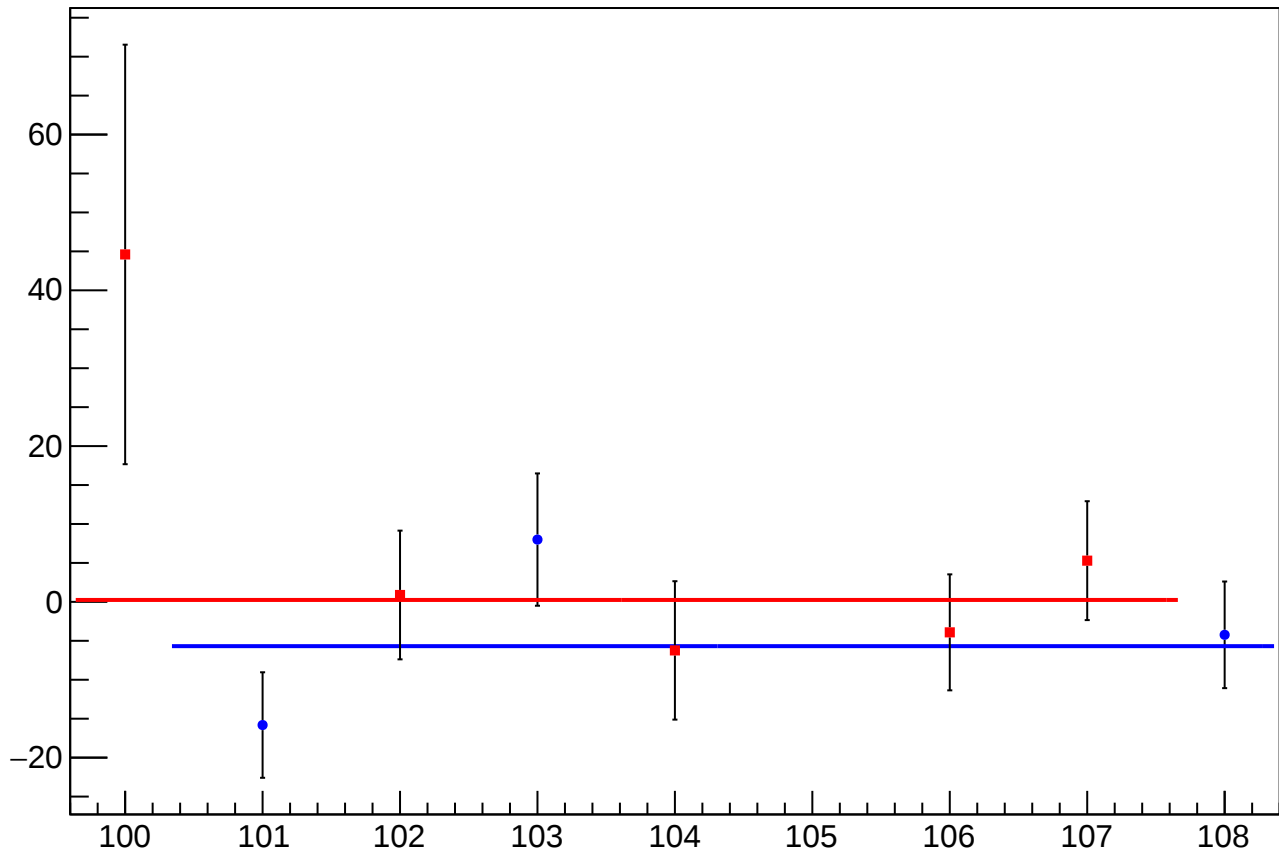
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2710.656+/-1.070  $\chi^2/\text{NDF}$ : 128301.9/7

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

# diff\_cav4cY\_mean vs Slug



Right In: -5.686+/-4.189  $\chi^2/\text{NDF}$ : 4.9/2

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

Right Out: 0.246+/-3.956  $\chi^2/\text{NDF}$ : 4.0/4

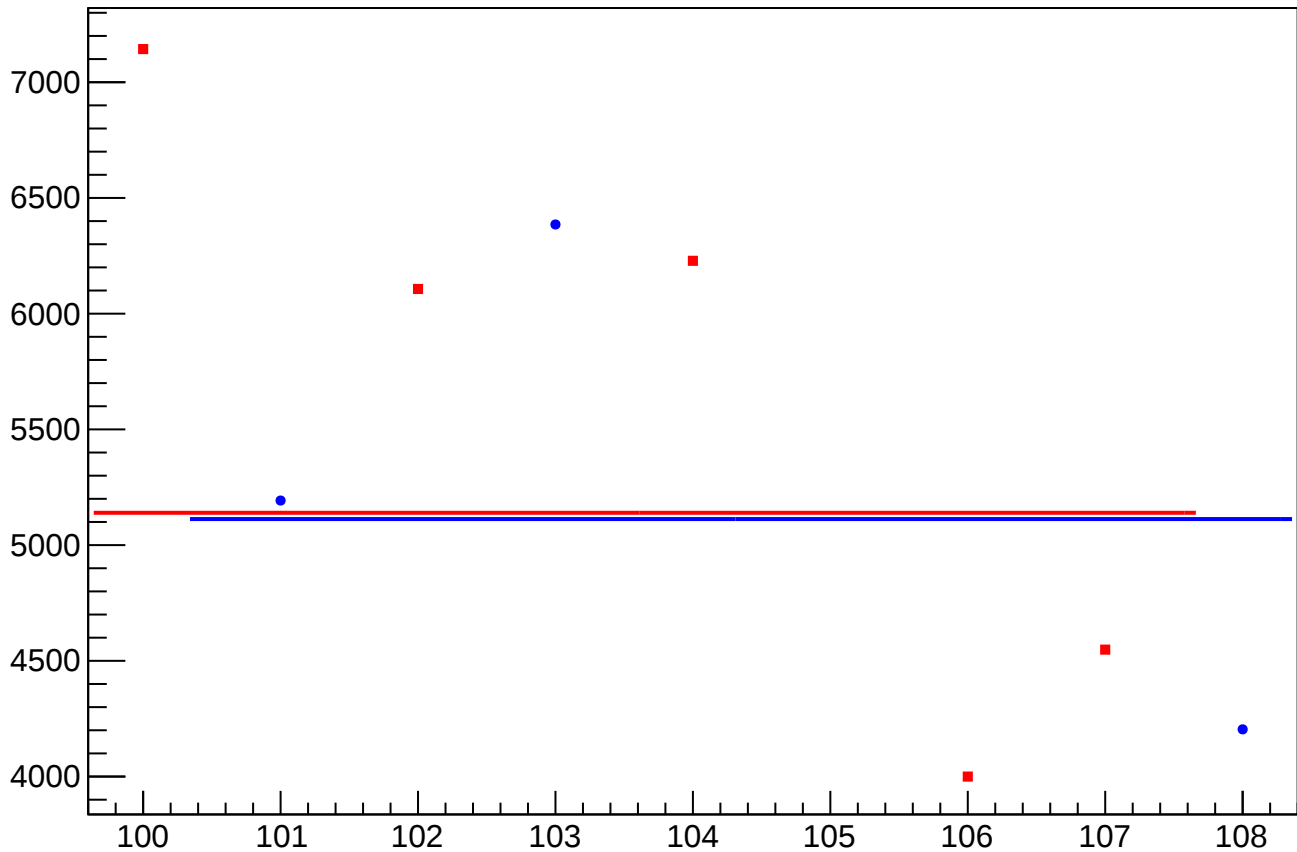
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -2.551+/-2.876  $\chi^2/\text{NDF}$ : 9.9/7

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

# diff\_cav4cY\_rms vs Slug



Right In: 5112.558+/-2.962  $\chi^2/\text{NDF}$ : 80420.9/2

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

Right Out: 5139.730+/-2.797  $\chi^2/\text{NDF}$ : 127355.3/4

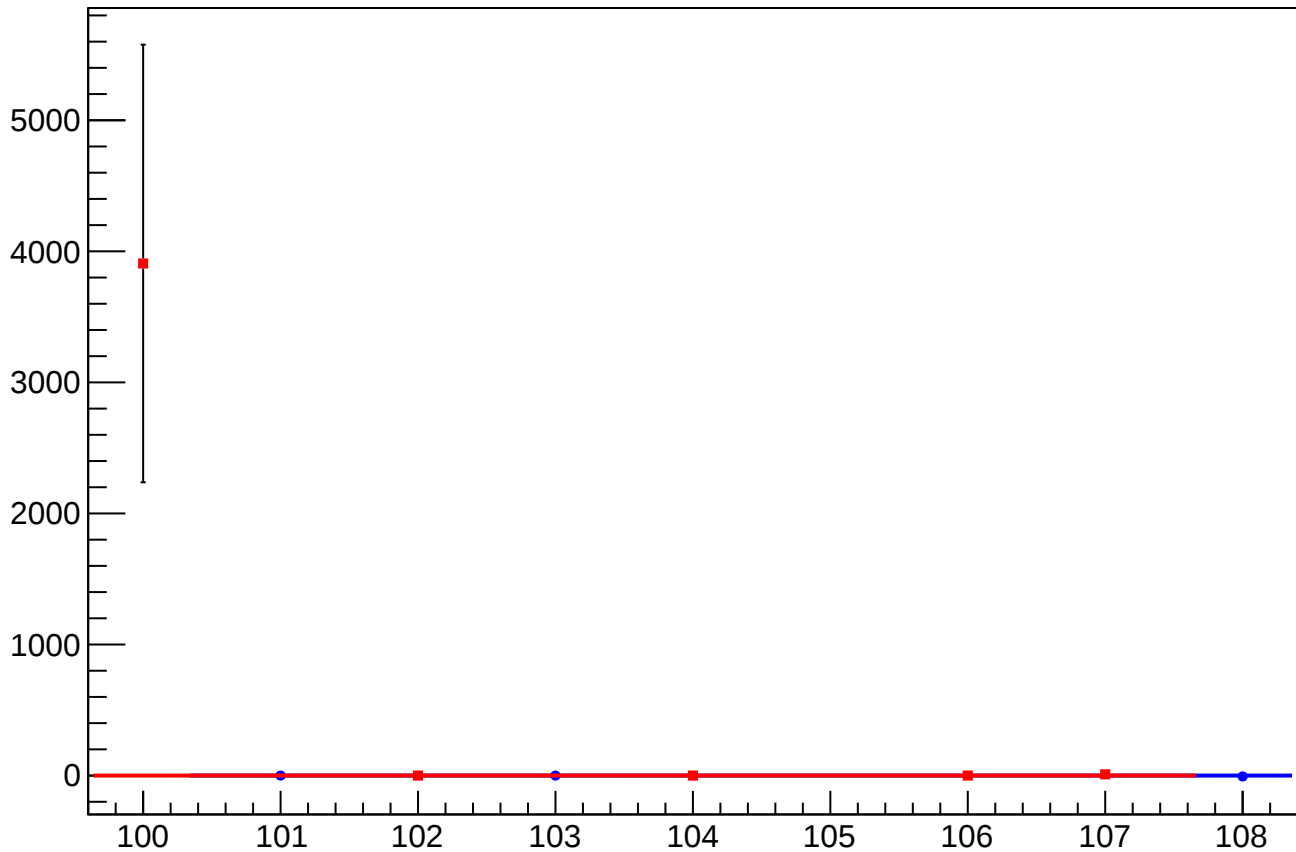
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 5126.919+/-2.034  $\chi^2/\text{NDF}$ : 207820.7/7

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

# diff\_cav4dX\_mean vs Slug



Right In:  $-0.021 \pm 0.021$   $\chi^2/\text{NDF}$ : 0.9/2

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

Right Out:  $-0.026 \pm 0.020$   $\chi^2/\text{NDF}$ : 7.0/4

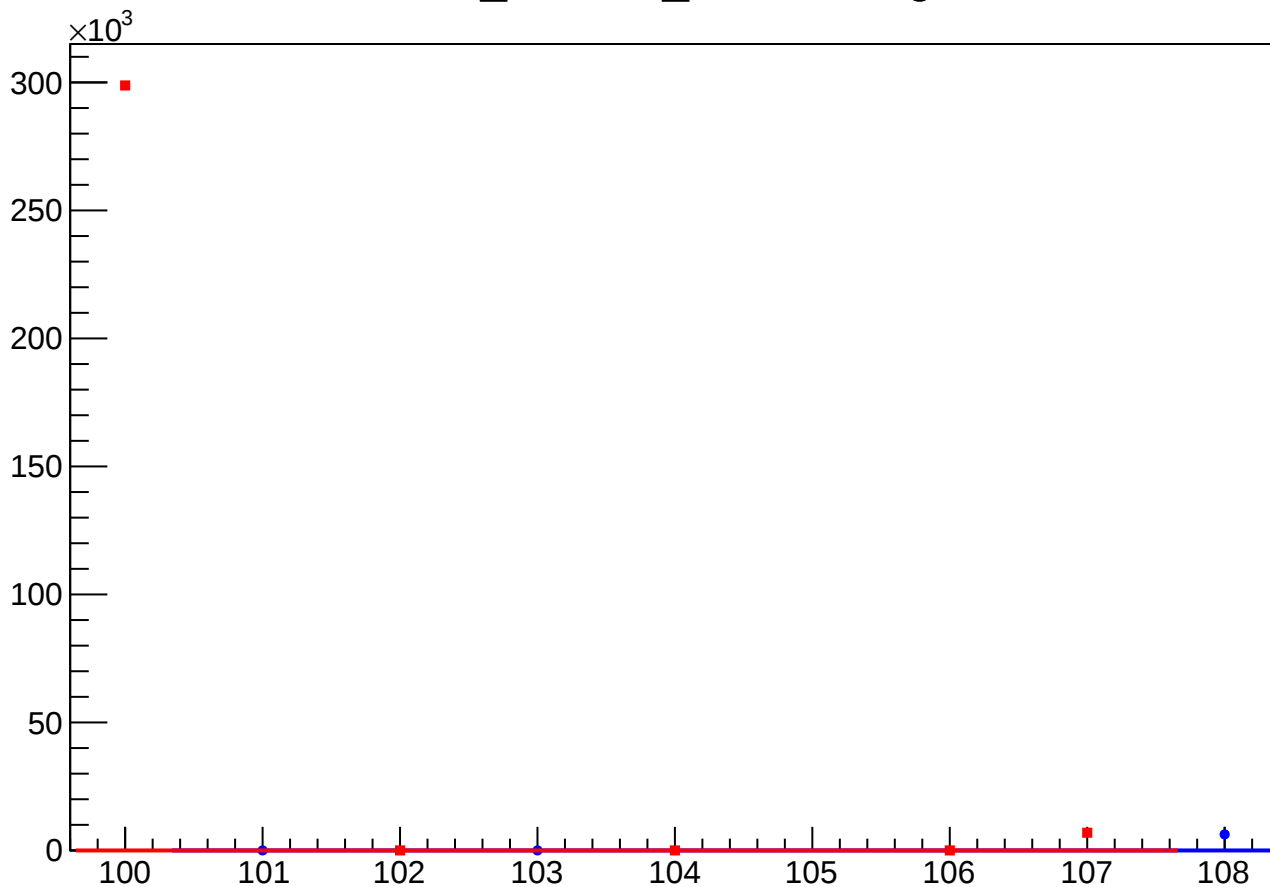
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.024 \pm 0.014$   $\chi^2/\text{NDF}$ : 7.9/7

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

# diff\_cav4dX\_rms vs Slug



Right In: 16.925 $\pm$ 0.015  $\chi^2$ /NDF: 747780.0/2

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

Right Out: 16.952 $\pm$ 0.014  $\chi^2$ /NDF: 767347.7/4

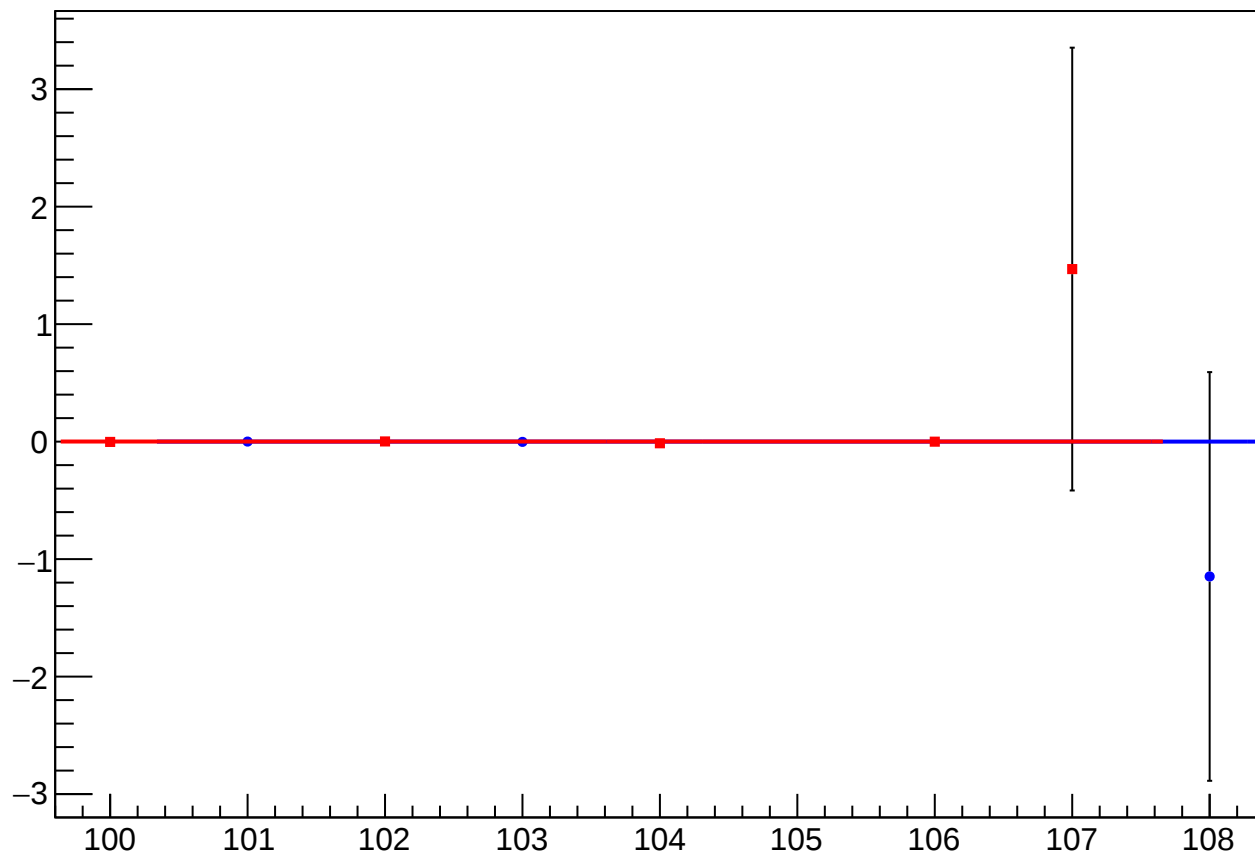
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 16.939 $\pm$ 0.010  $\chi^2$ /NDF: 1515129.5/7

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

# diff\_cav4dY\_mean vs Slug



Right In: 0.000 $\pm$ 0.002  $\chi^2$ /NDF: 0.6/2

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

Right Out: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 1.6/4

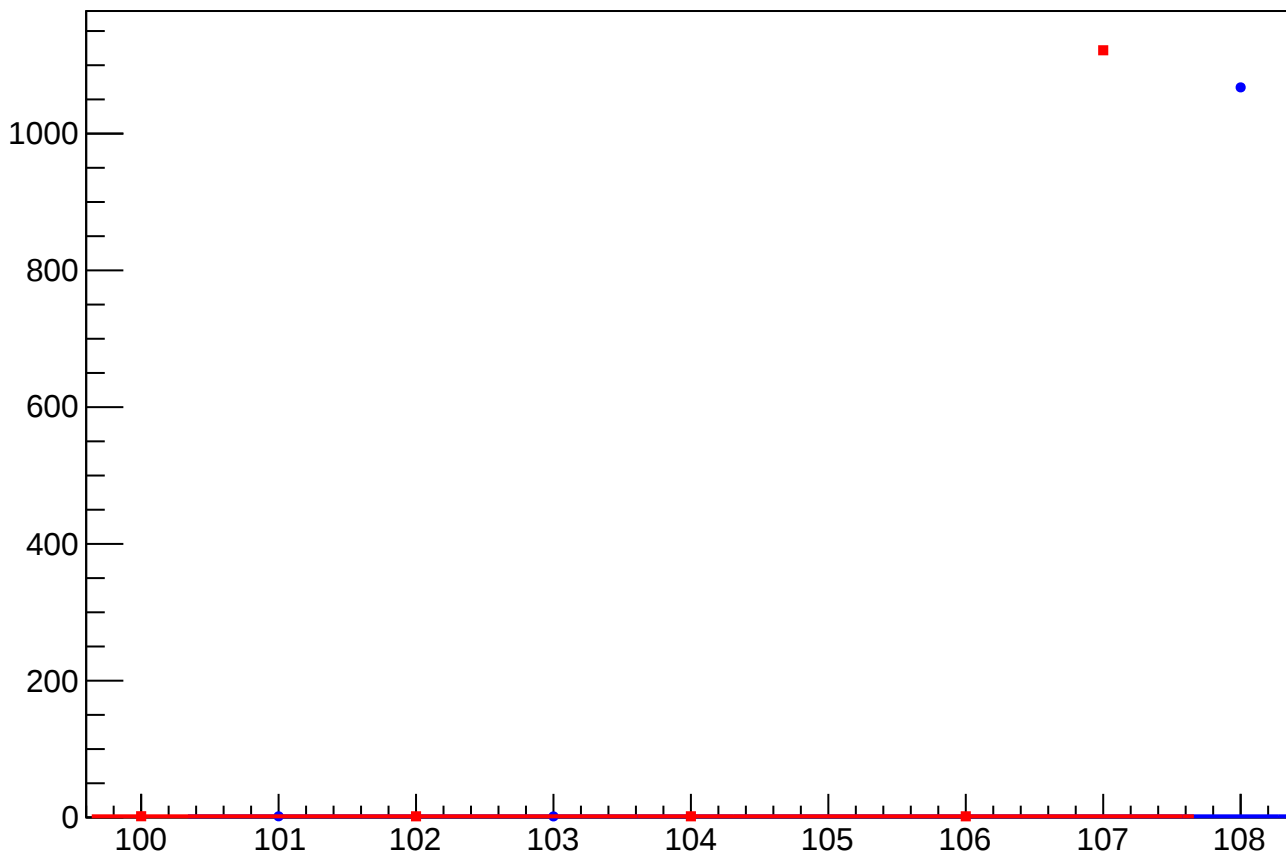
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.001 $\pm$ 0.001  $\chi^2$ /NDF: 2.3/7

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

# diff\_cav4dY\_rms vs Slug



Right In: 1.646 $\pm$ 0.001  $\chi^2$ /NDF: 752046.8/2

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

Right Out: 1.681 $\pm$ 0.001  $\chi^2$ /NDF: 706786.8/4

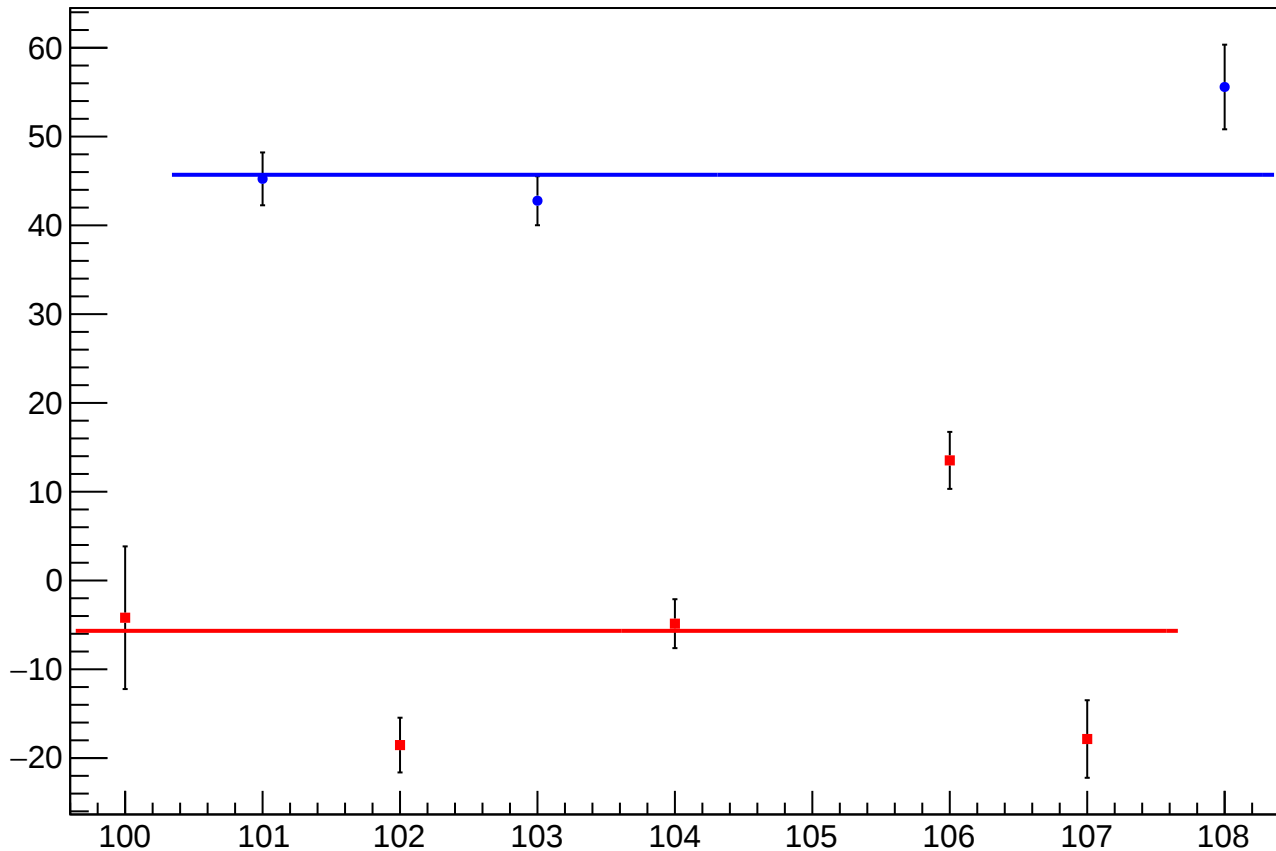
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1.664 $\pm$ 0.001  $\chi^2$ /NDF: 1459139.9/7

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

# diff\_bpm0i01X\_mean vs Slug



Right In: 45.695 $\pm$ 1.863  $\chi^2$ /NDF: 5.5/2

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

Right Out: -5.670 $\pm$ 1.577  $\chi^2$ /NDF: 61.1/4

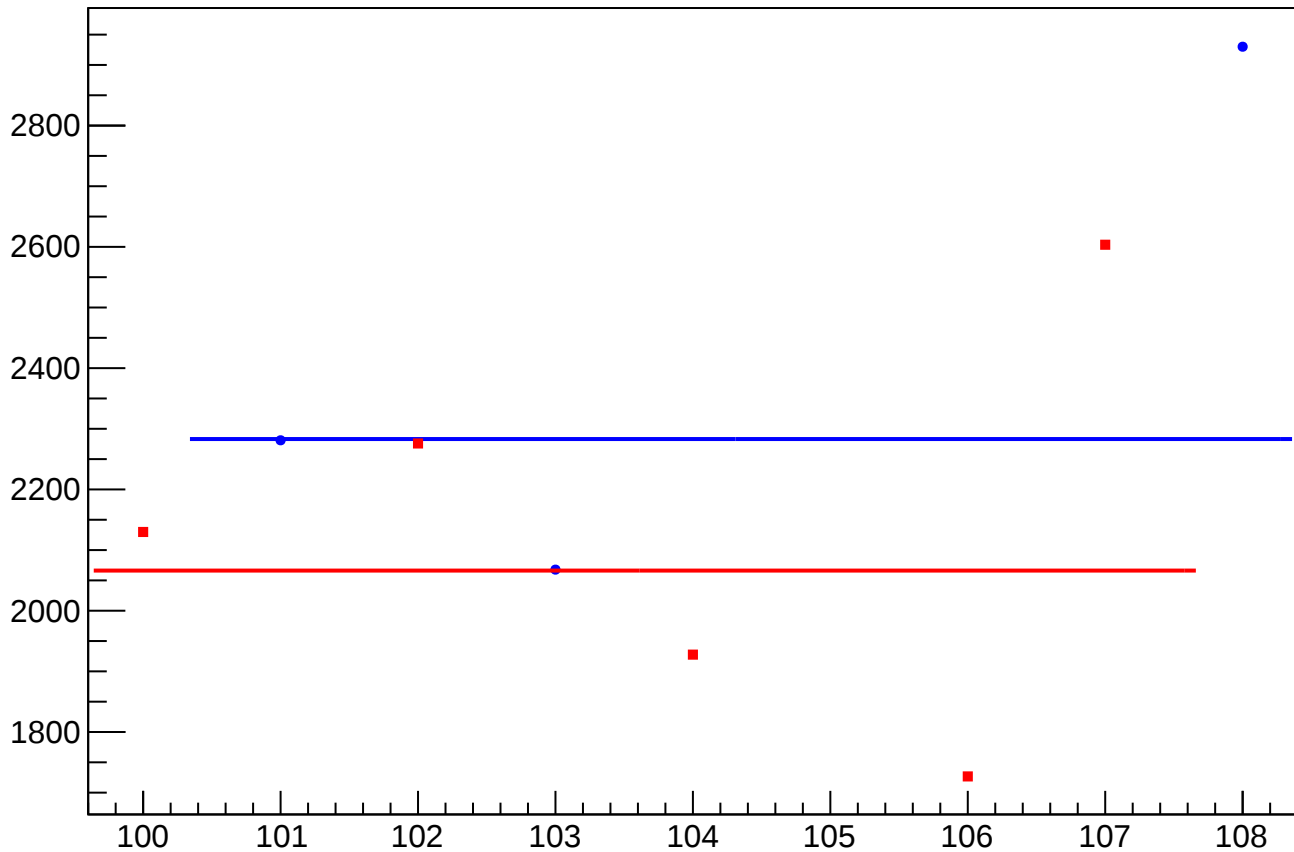
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 15.777 $\pm$ 1.204  $\chi^2$ /NDF: 509.4/7

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

# diff\_bpm0i01X\_rms vs Slug



Right In: 2283.106 $\pm$ 1.317  $\chi^2$ /NDF: 49031.8/2

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

Right Out: 2066.197 $\pm$ 1.115  $\chi^2$ /NDF: 67072.1/4

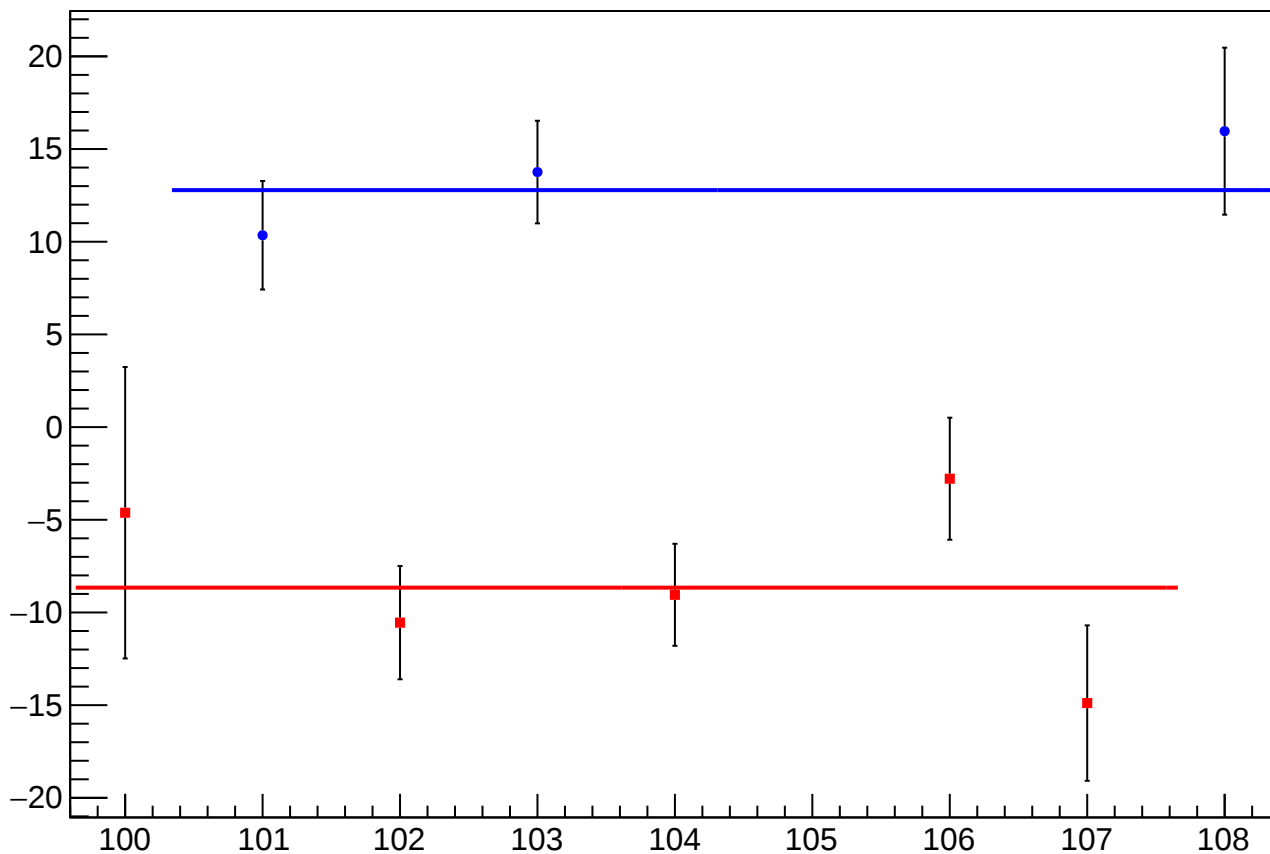
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 2156.764 $\pm$ 0.851  $\chi^2$ /NDF: 131897.6/7

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

diff\_bpm0i01Y\_mean vs Slug



Right In: 12.784+/-1.837  $\chi^2/\text{NDF}$ : 1.3/2

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

Right Out: -8.660+/-1.572  $\chi^2/\text{NDF}$ : 6.1/4

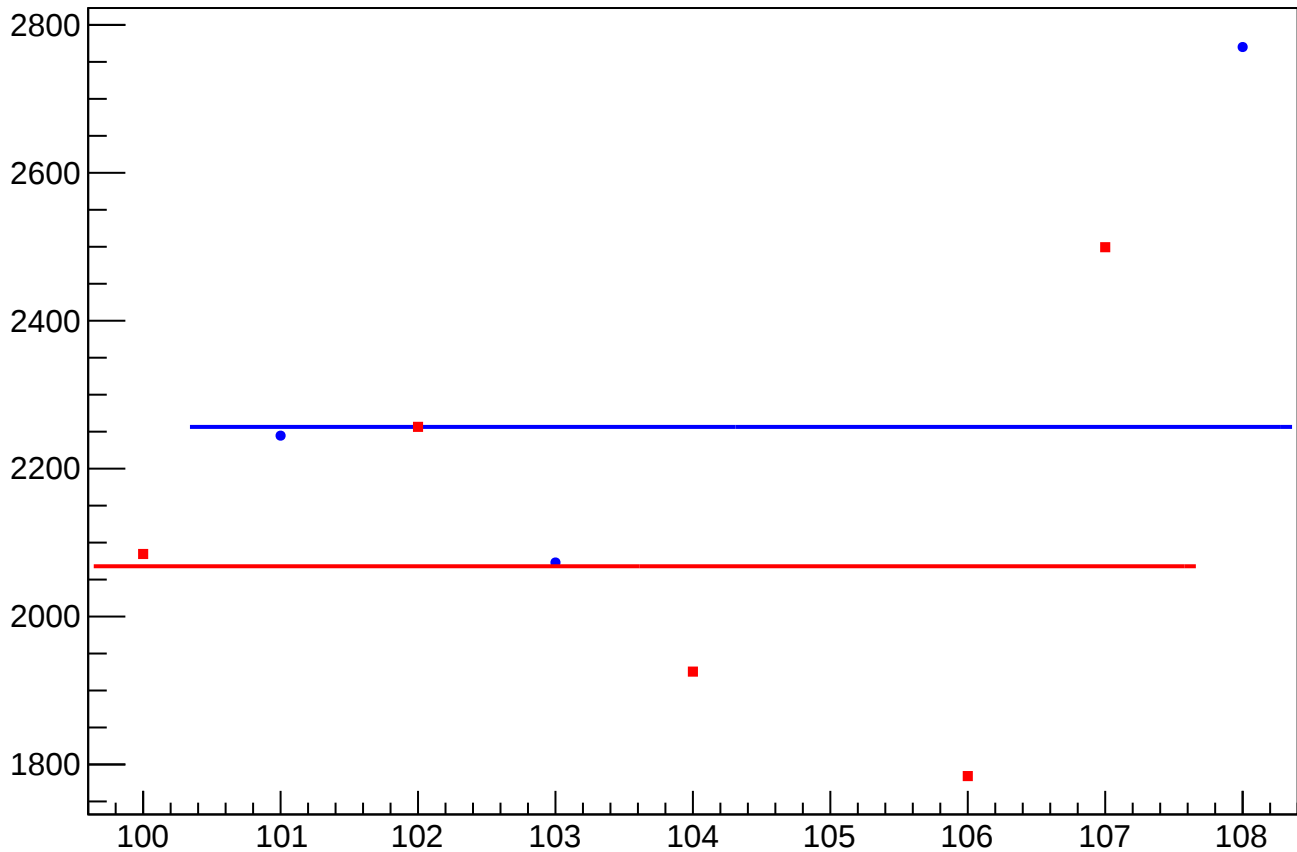
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.408+/-1.194  $\chi^2/\text{NDF}$ : 86.1/7

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

# diff\_bpm0i01Y\_rms vs Slug



Right In: 2256.426 $\pm$ 1.299  $\chi^2$ /NDF: 34812.4/2

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

Right Out: 2067.998 $\pm$ 1.112  $\chi^2$ /NDF: 49020.6/4

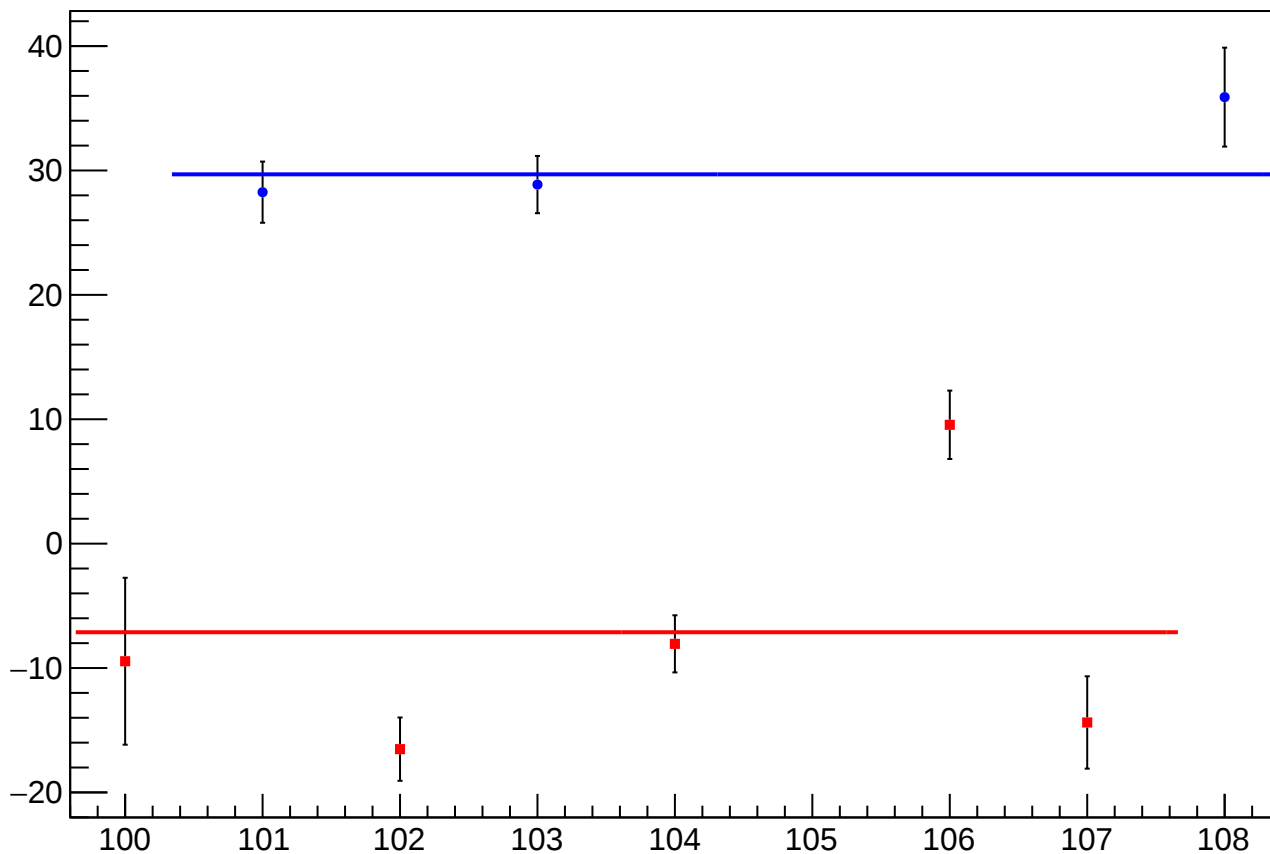
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 2147.682 $\pm$ 0.844  $\chi^2$ /NDF: 95983.3/7

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

diff\_bpm0i01aX\_mean vs Slug



Right In: 29.690 $\pm$ 1.548  $\chi^2$ /NDF: 2.9/2

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

Right Out: -7.122 $\pm$ 1.323  $\chi^2$ /NDF: 54.6/4

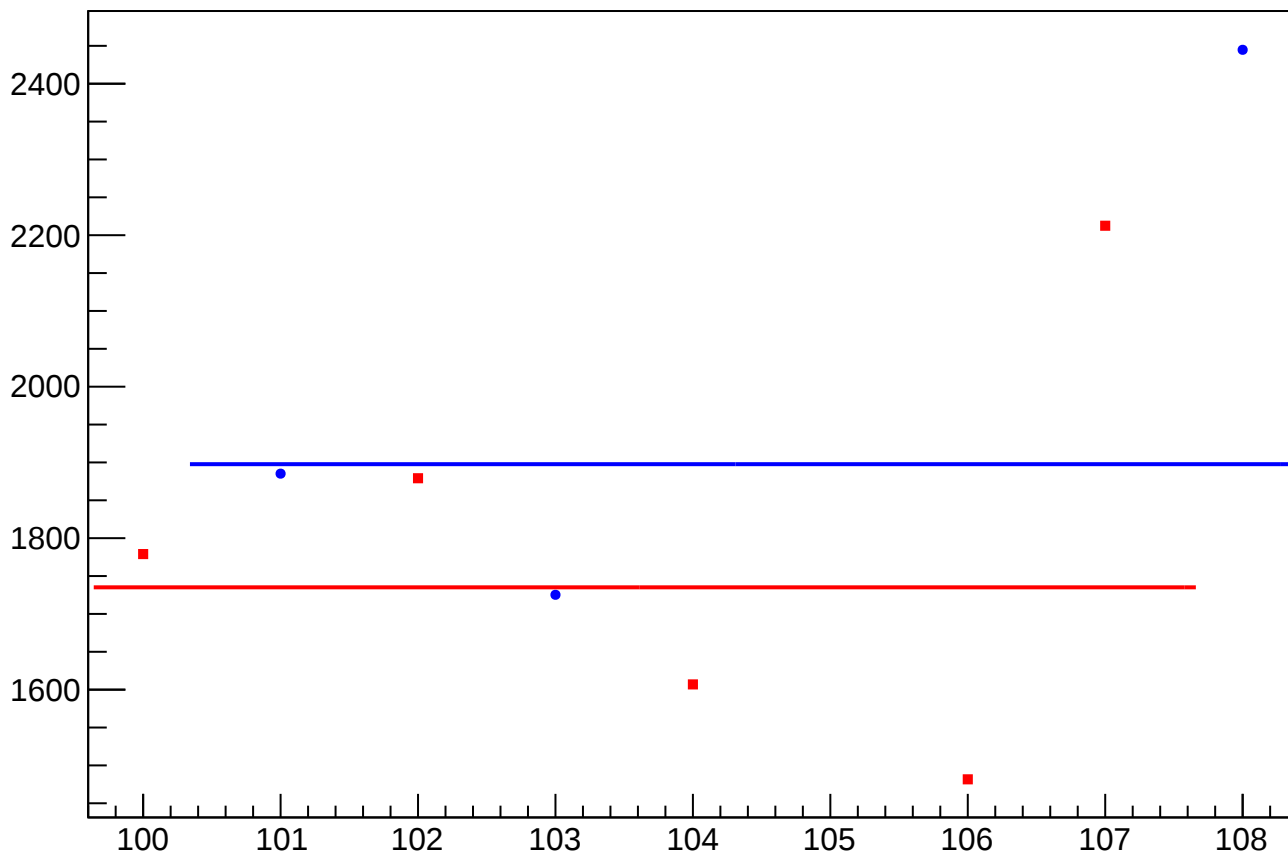
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 8.414 $\pm$ 1.006  $\chi^2$ /NDF: 384.3/7

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

# diff\_bpm0i01aX\_rms vs Slug



Right In: 1897.695+/-1.095  $\chi^2/\text{NDF}$ : 49137.3/2

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

Right Out: 1735.104+/-0.935  $\chi^2/\text{NDF}$ : 62828.0/4

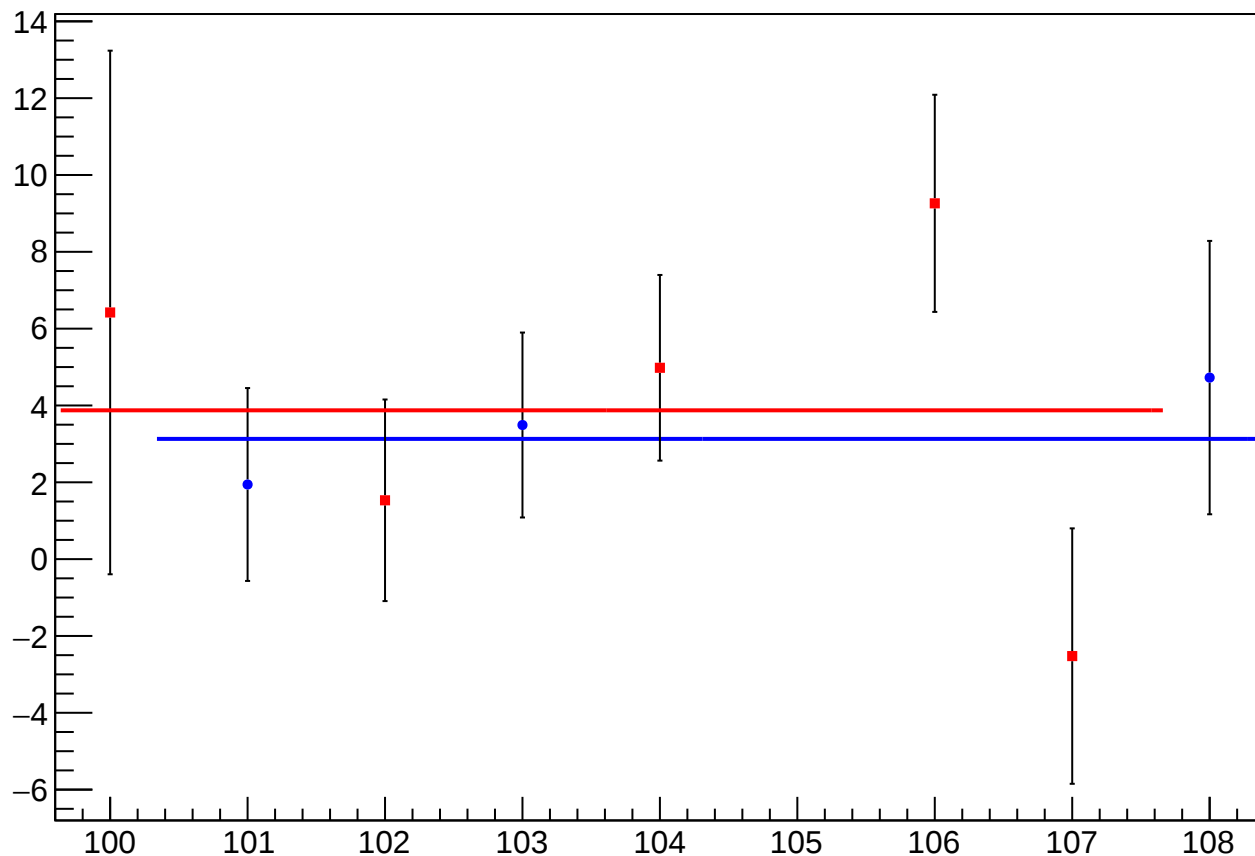
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1803.725+/-0.711  $\chi^2/\text{NDF}$ : 124716.3/7

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

# diff\_bpm0i01aY\_mean vs Slug



Right In: 3.130+/-1.561  $\chi^2/\text{NDF}$ : 0.4/2

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

Right Out: 3.874+/-1.344  $\chi^2/\text{NDF}$ : 8.5/4

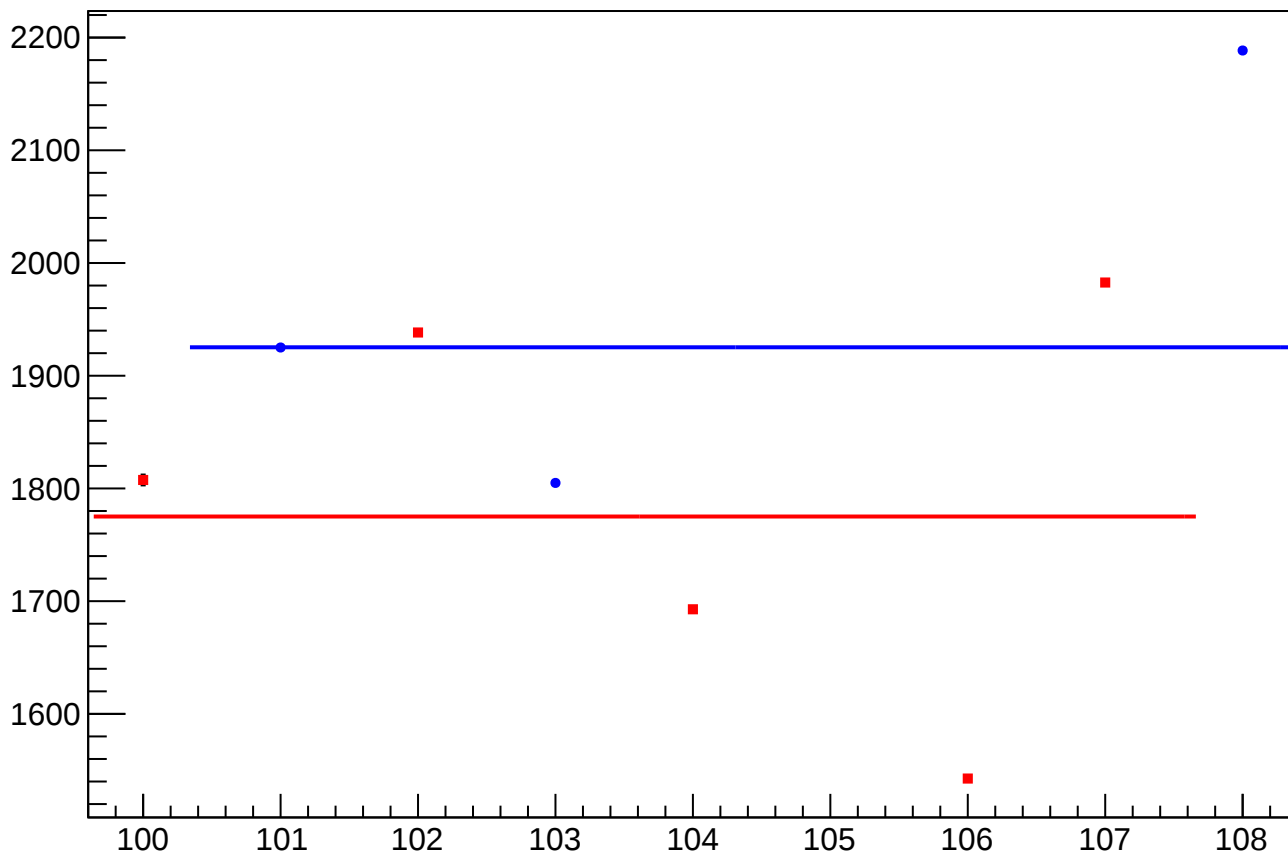
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 3.557+/-1.019  $\chi^2/\text{NDF}$ : 9.1/7

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

# diff\_bpm0i01aY\_rms vs Slug



Right In: 1925.232 $\pm$ 1.104  $\chi^2$ /NDF: 15948.0/2

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

Right Out: 1775.100 $\pm$ 0.950  $\chi^2$ /NDF: 31433.5/4

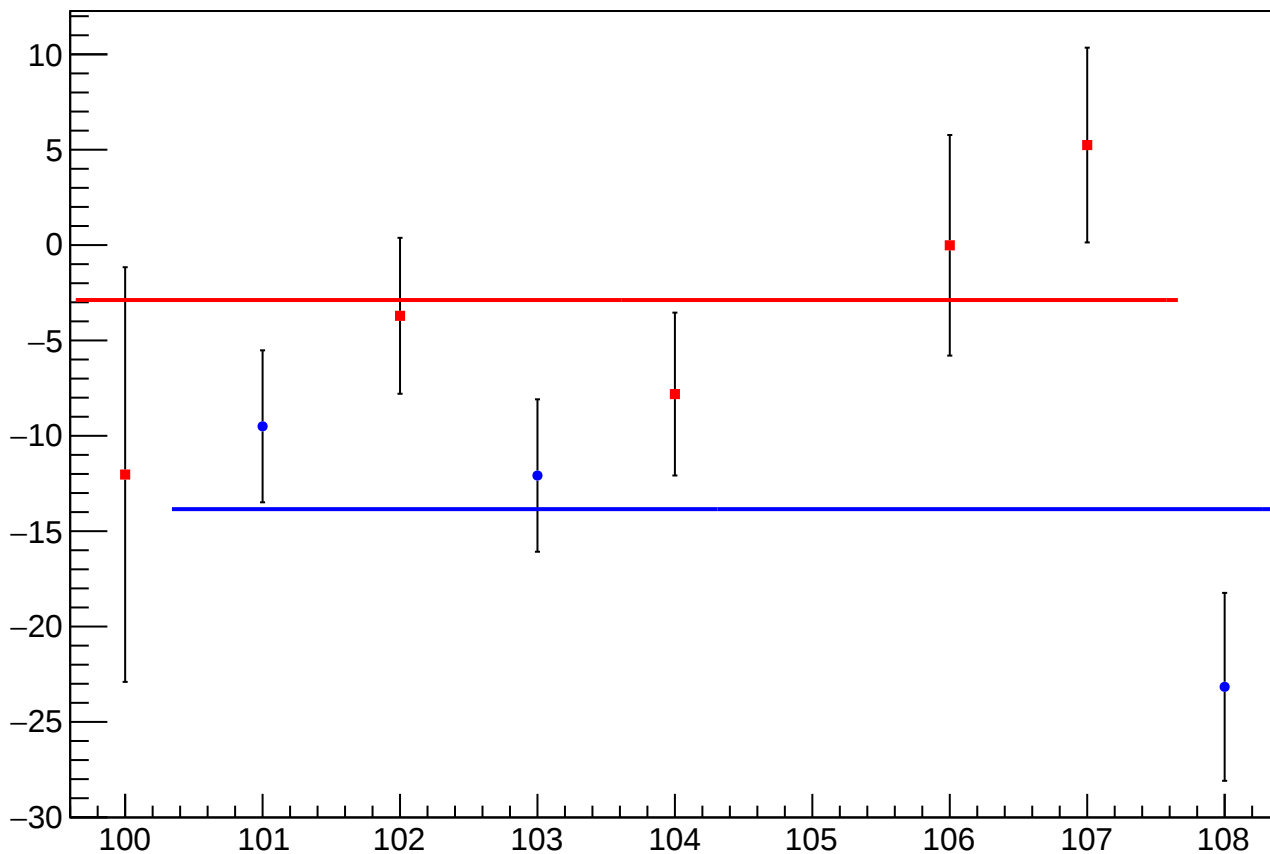
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1838.998 $\pm$ 0.720  $\chi^2$ /NDF: 58004.0/7

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

# diff\_bpm0l01X\_mean vs Slug



Right In: -13.845 $\pm$ 2.448  $\chi^2$ /NDF: 5.0/2

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

Right Out: -2.881 $\pm$ 2.286  $\chi^2$ /NDF: 4.9/4

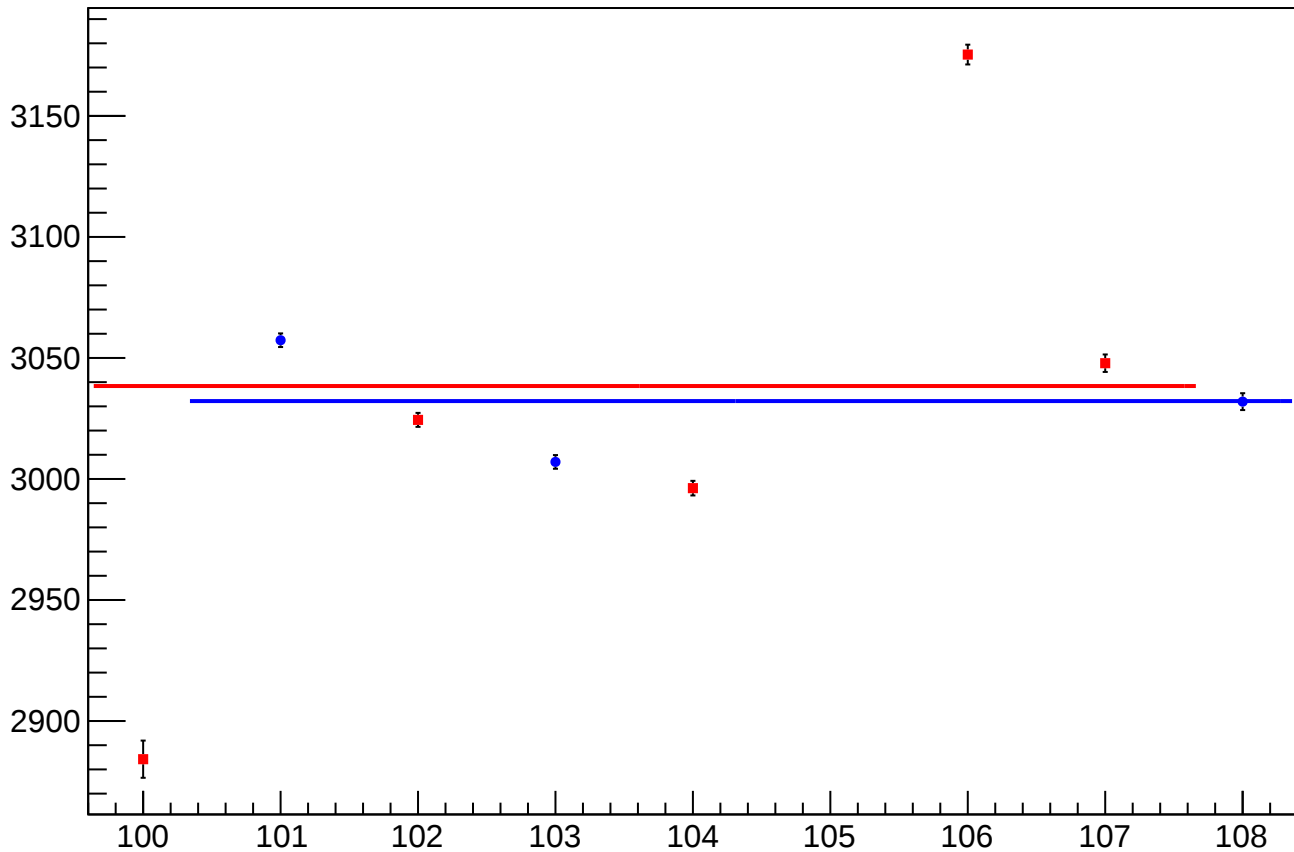
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -7.986 $\pm$ 1.671  $\chi^2$ /NDF: 20.5/7

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

# diff\_bpm0l01X\_rms vs Slug



Right In: 3032.187 $\pm$ 1.731  $\chi^2$ /NDF: 158.8/2

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

Right Out: 3038.402 $\pm$ 1.616  $\chi^2$ /NDF: 1749.4/4

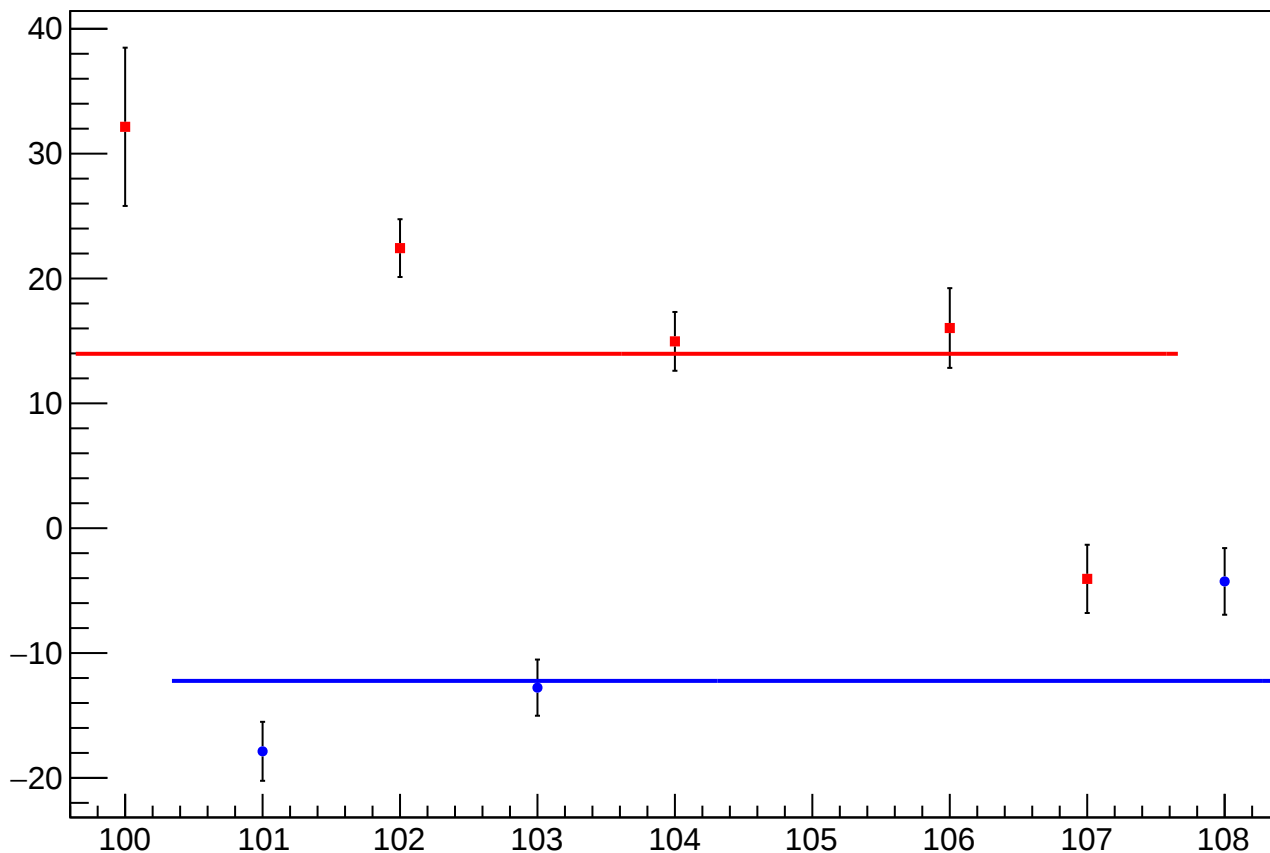
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 3035.508 $\pm$ 1.181  $\chi^2$ /NDF: 1915.1/7

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

# diff\_bpm0l01Y\_mean vs Slug



Right In:  $-12.230 \pm 1.391$   $\chi^2/\text{NDF}: 14.7/2$

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

Right Out:  $13.969 \pm 1.266$   $\chi^2/\text{NDF}: 65.7/4$

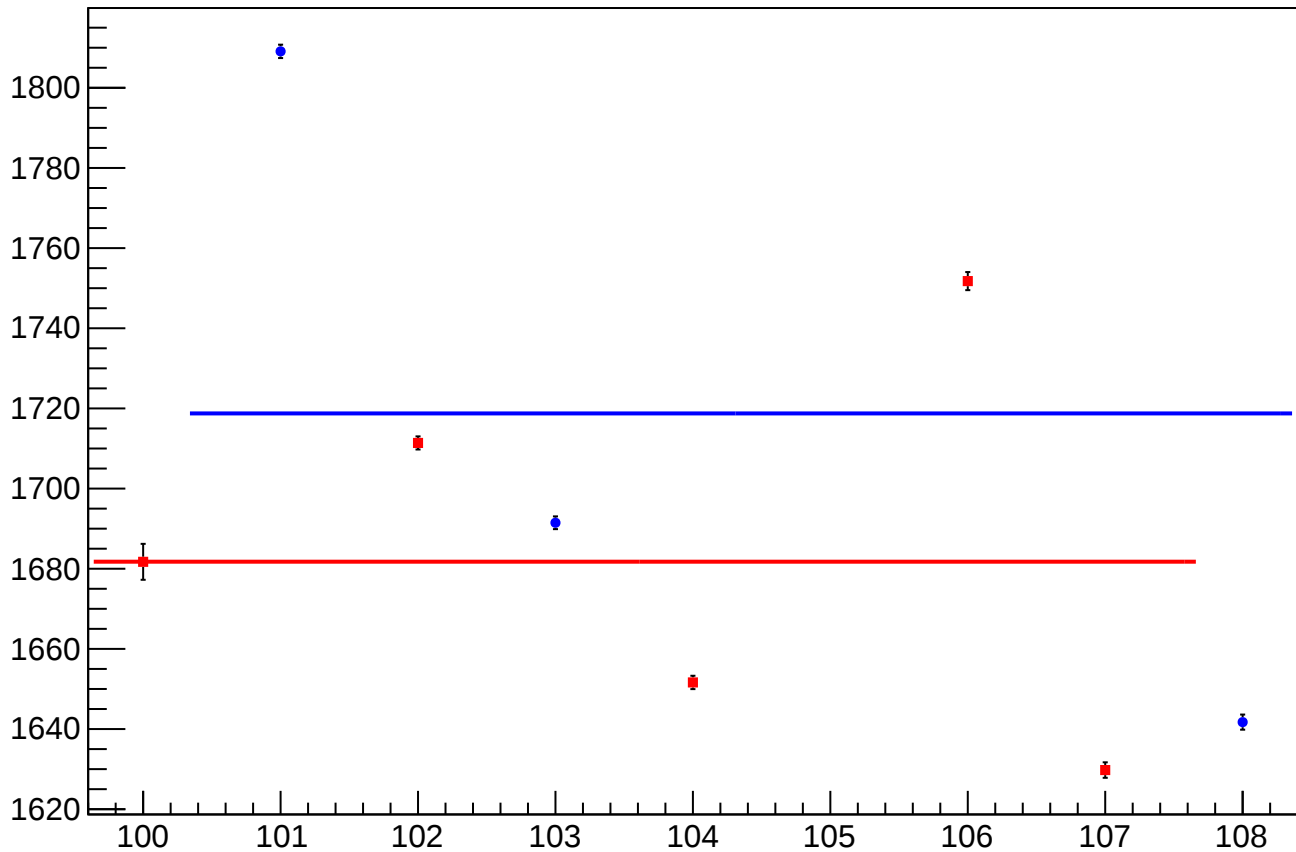
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

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

All:  $2.094 \pm 0.936$   $\chi^2/\text{NDF}: 274.5/7$

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

# diff\_bpm0l01Y\_rms vs Slug



Right In: 1718.754 $\pm$ 0.983  $\chi^2$ /NDF: 4885.5/2

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

Right Out: 1681.758 $\pm$ 0.895  $\chi^2$ /NDF: 2340.2/4

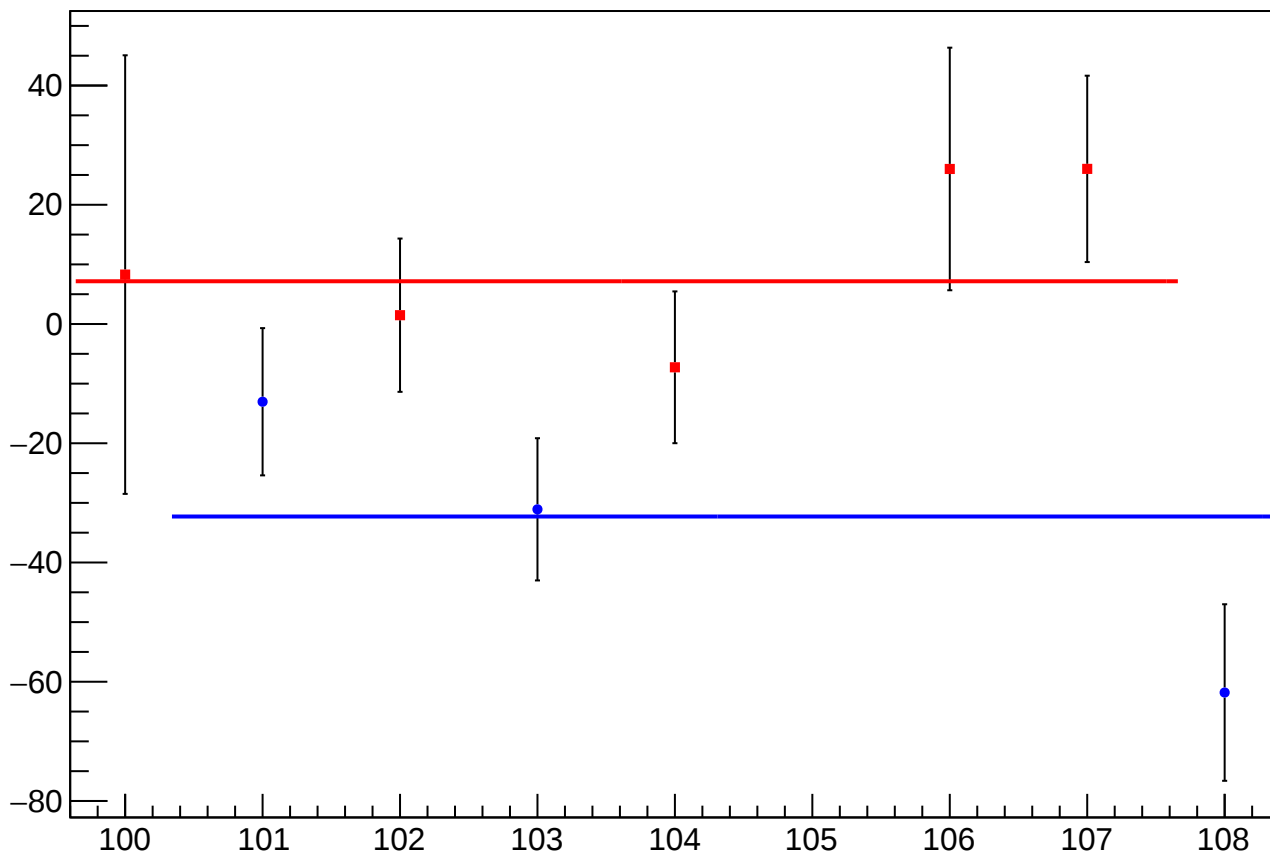
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1698.526 $\pm$ 0.662  $\chi^2$ /NDF: 7999.7/7

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

# diff\_bpm0l02X\_mean vs Slug



Right In:  $-32.286 \pm 7.423$   $\chi^2/\text{NDF}$ : 6.4/2

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

Right Out:  $7.172 \pm 7.167$   $\chi^2/\text{NDF}$ : 3.8/4

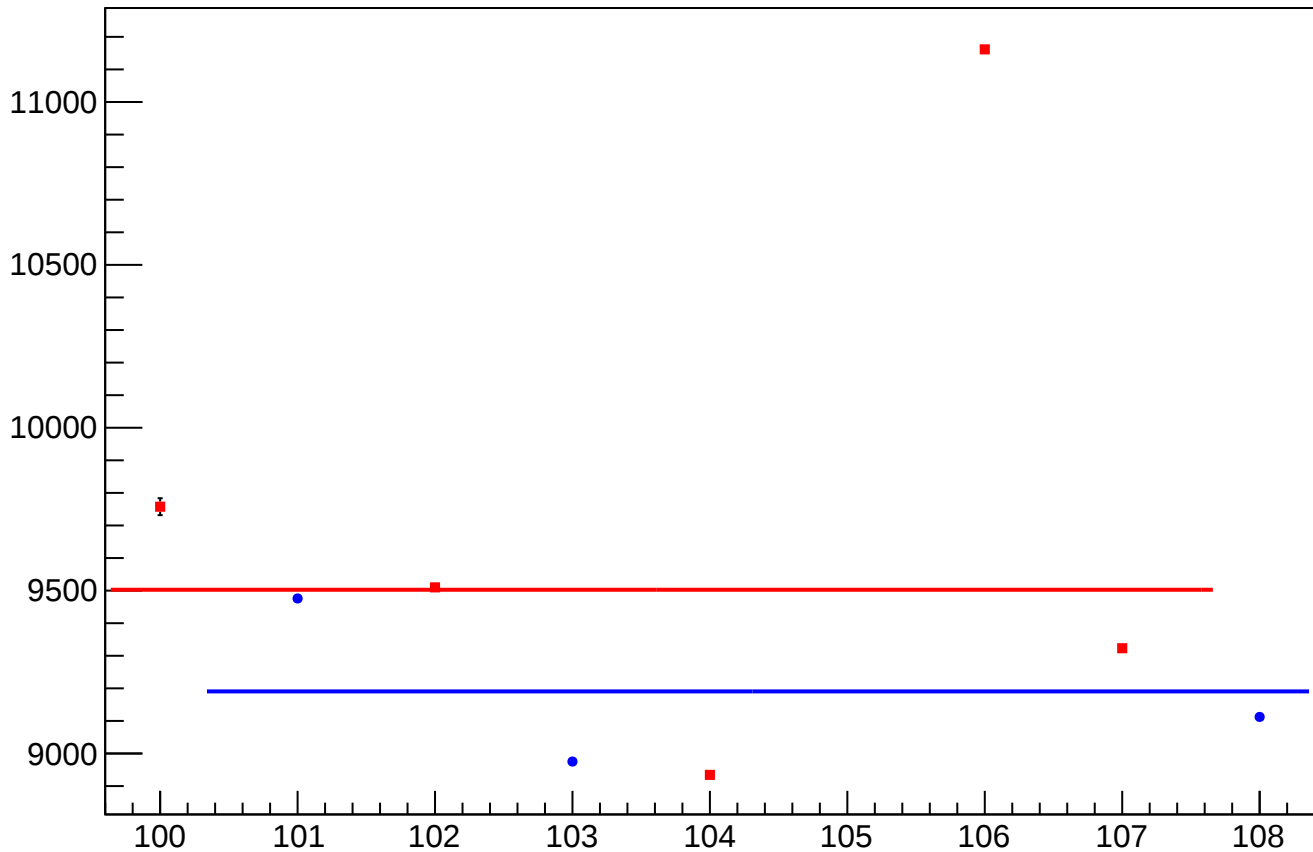
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-11.864 \pm 5.156$   $\chi^2/\text{NDF}$ : 24.8/7

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

# diff\_bpm0l02X\_rms vs Slug



Right In: 9190.627 $\pm$ 5.249  $\chi^2$ /NDF: 1775.7/2

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

Right Out: 9502.652 $\pm$ 5.067  $\chi^2$ /NDF: 17644.7/4

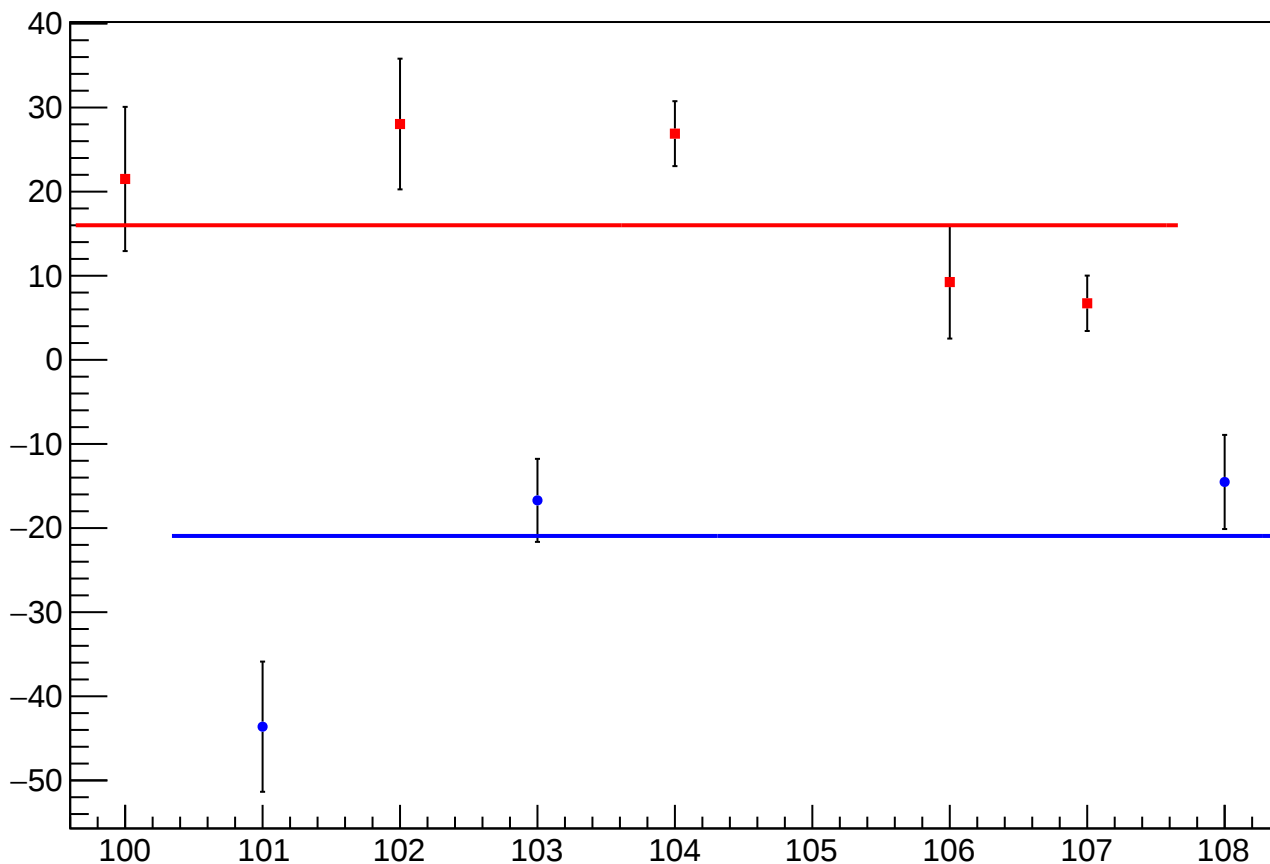
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 9352.122 $\pm$ 3.646  $\chi^2$ /NDF: 21249.4/7

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

diff\_bpm0l02Y\_mean vs Slug



Right In: -20.936 $\pm$ -3.340  $\chi^2$ /NDF: 10.6/2

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

Right Out: 16.002 $\pm$ -2.174  $\chi^2$ /NDF: 19.7/4

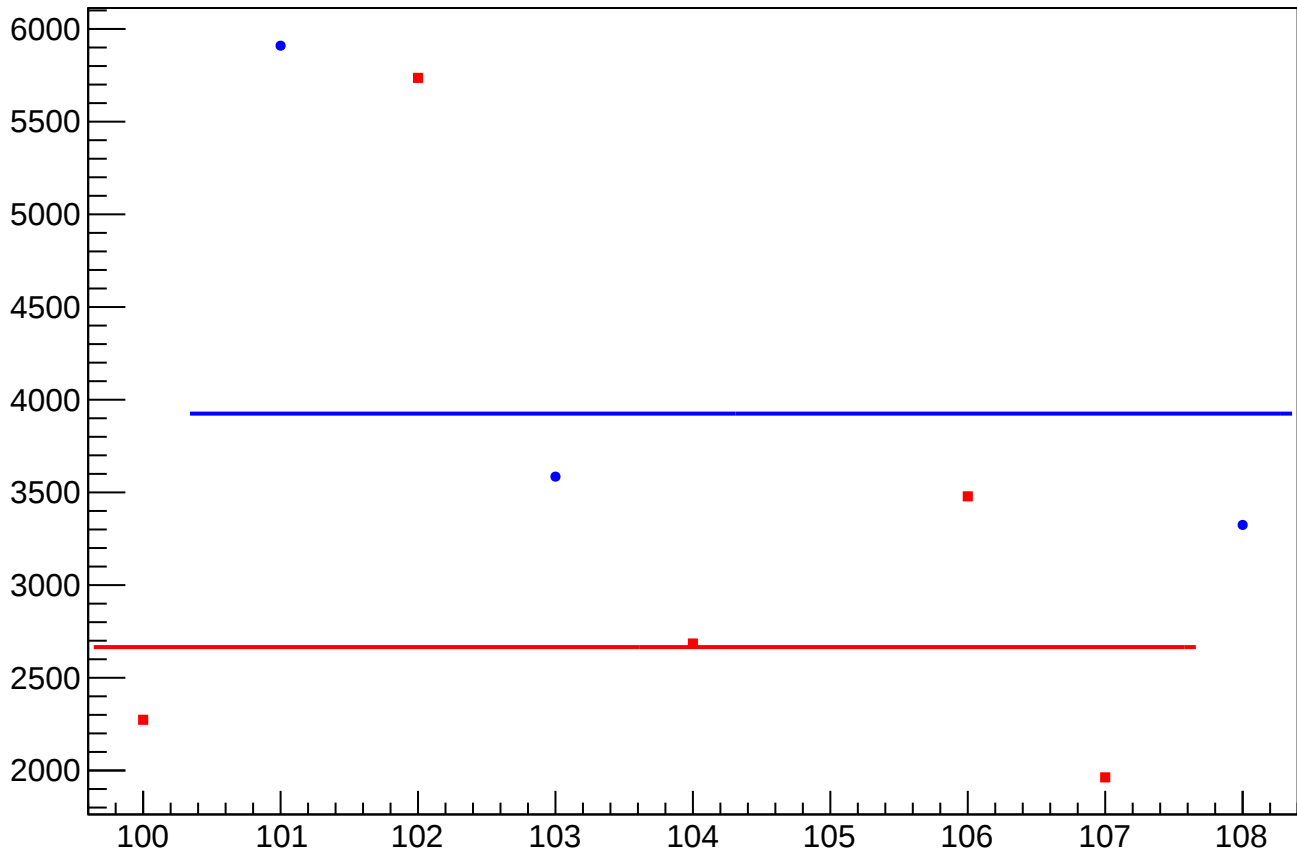
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

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

All: 5.011 $\pm$ -1.822  $\chi^2$ /NDF: 116.3/7

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

# diff\_bpm0l02Y\_rms vs Slug



Right In: 3925.072 $\pm$ 2.362  $\chi^2$ /NDF: 163999.0/2

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

Right Out: 2665.620 $\pm$ 1.537  $\chi^2$ /NDF: 436944.6/4

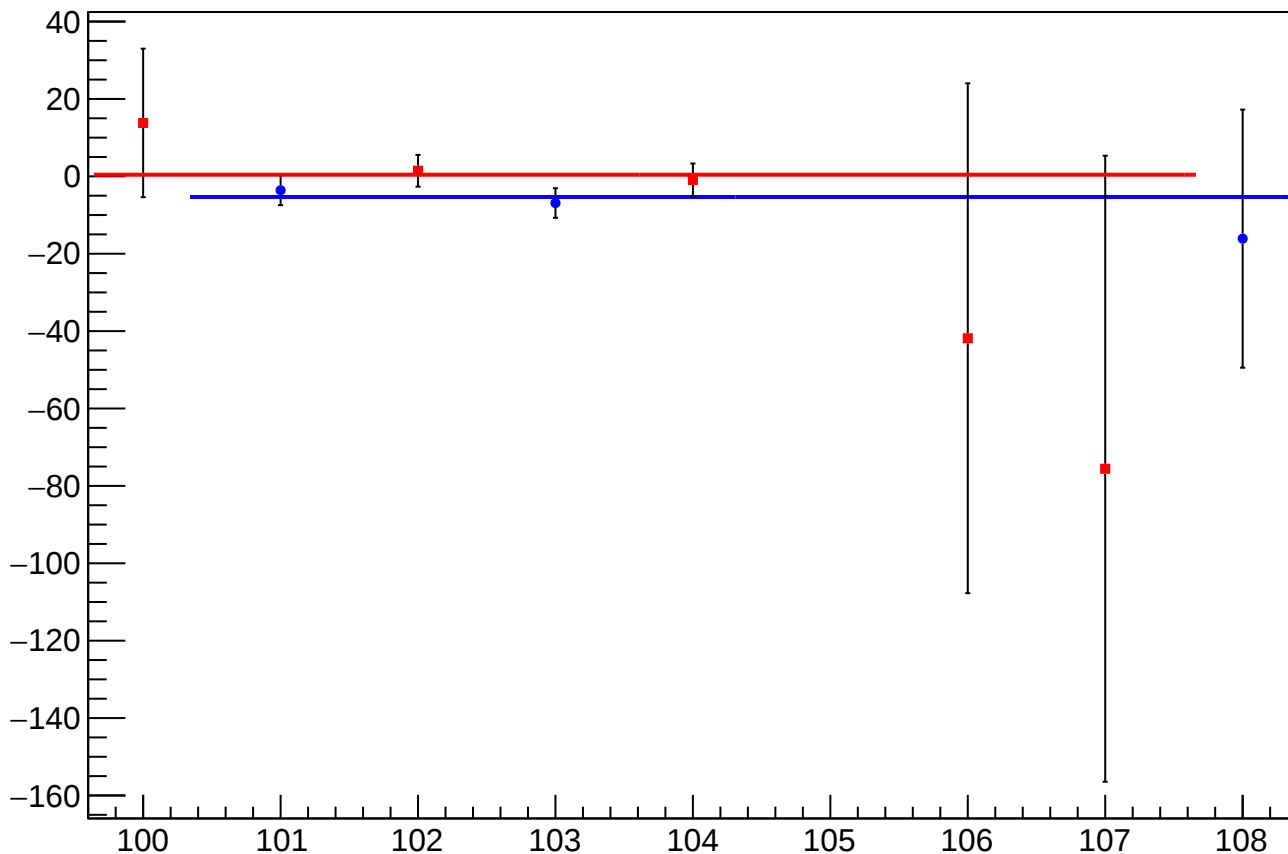
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 3040.363 $\pm$ 1.288  $\chi^2$ /NDF: 800738.8/7

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

# diff\_bpm0l03X\_mean vs Slug



Right In: -5.332+/-2.706  $\chi^2$ /NDF: 0.5/2

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

Right Out: 0.424+/-2.913  $\chi^2$ /NDF: 1.9/4

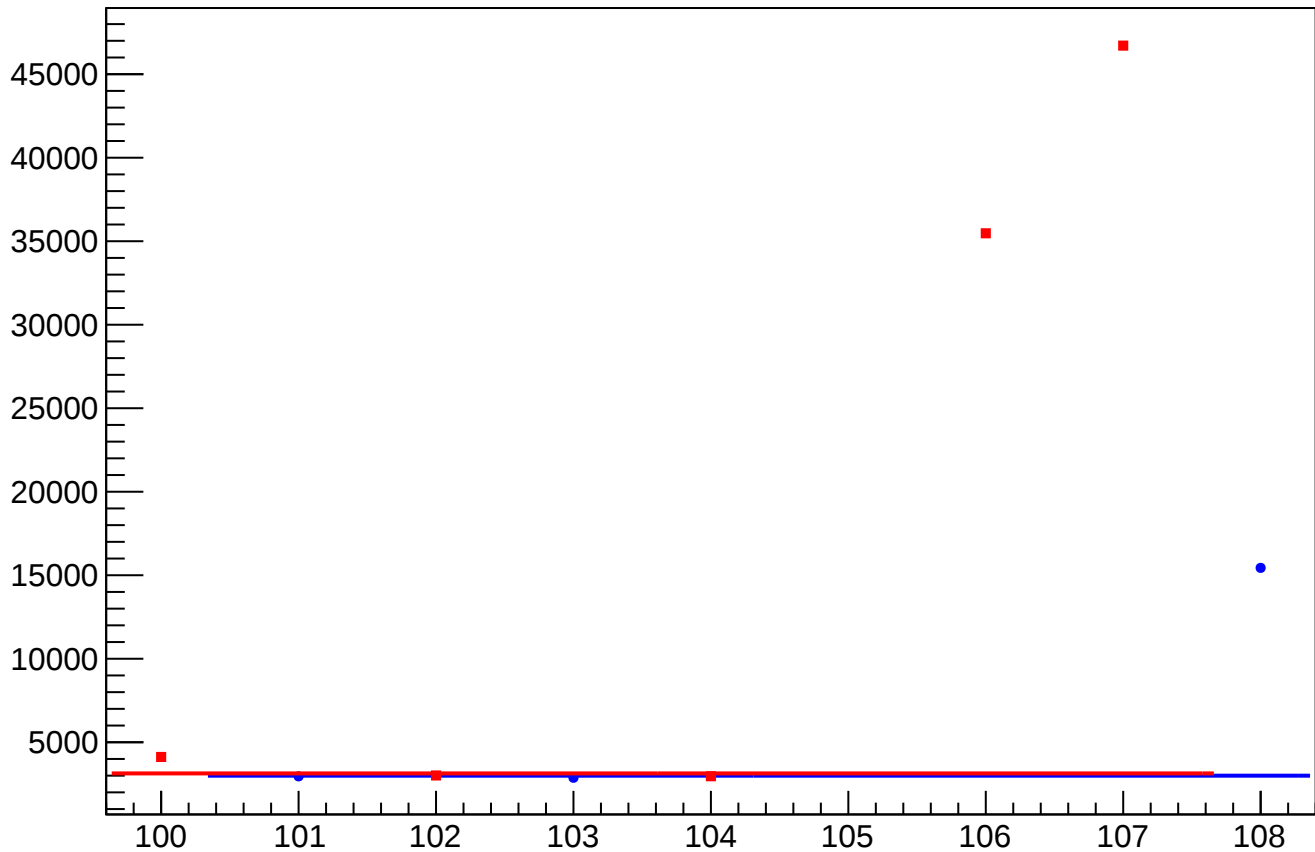
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -2.666+/-1.983  $\chi^2$ /NDF: 4.5/7

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

# diff\_bpm0l03X\_rms vs Slug



Right In: 2998.304+/-1.913  $\chi^2/\text{NDF}$ : 280749.7/2

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

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

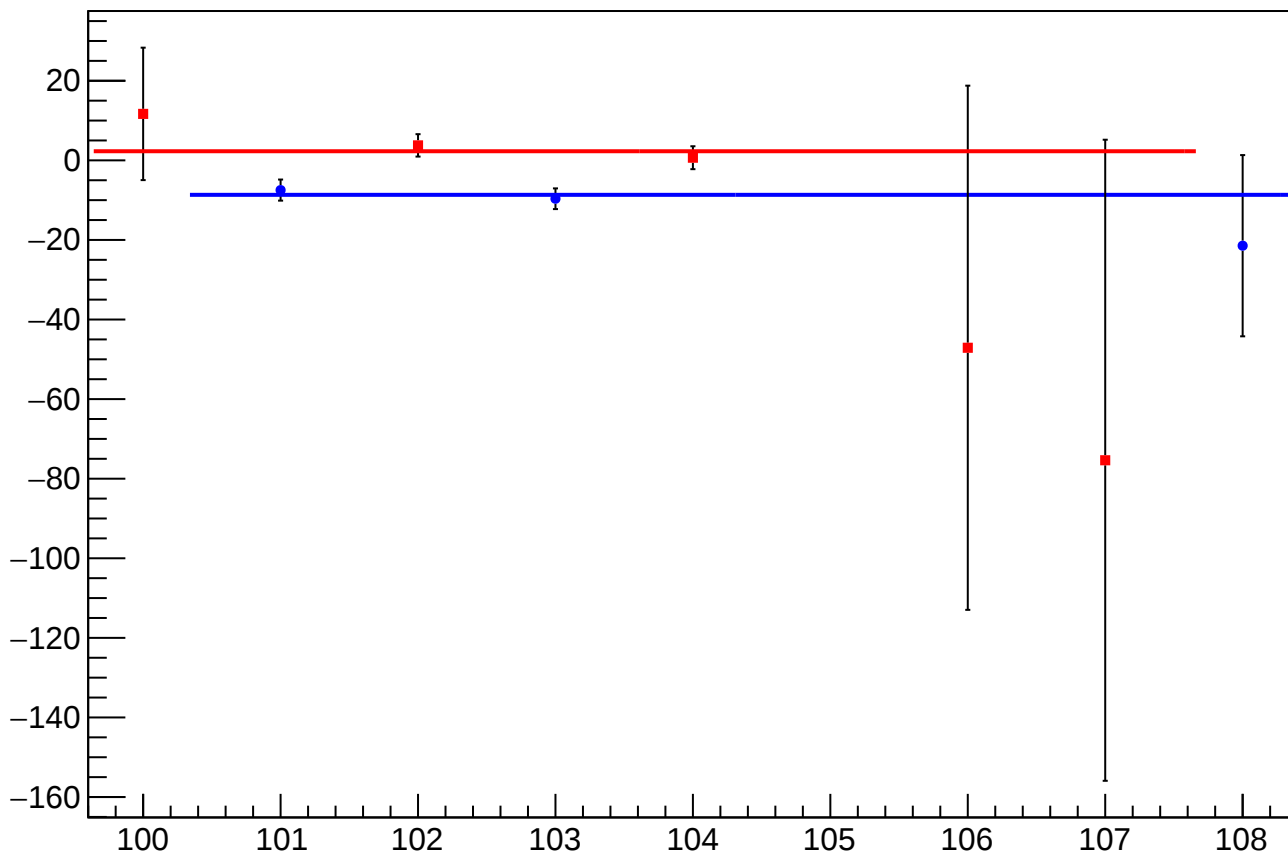
Right Out: 3134.513+/-2.060  $\chi^2/\text{NDF}$ : 1072447.4/4

All: 3061.390+/-1.402  $\chi^2/\text{NDF}$ : 1355544.1/7

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

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

# diff\_bpm0l03Y\_mean vs Slug



Right In: -8.664+/-1.850  $\chi^2/\text{NDF}$ : 0.7/2

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

Right Out: 2.291+/-1.997  $\chi^2/\text{NDF}$ : 2.4/4

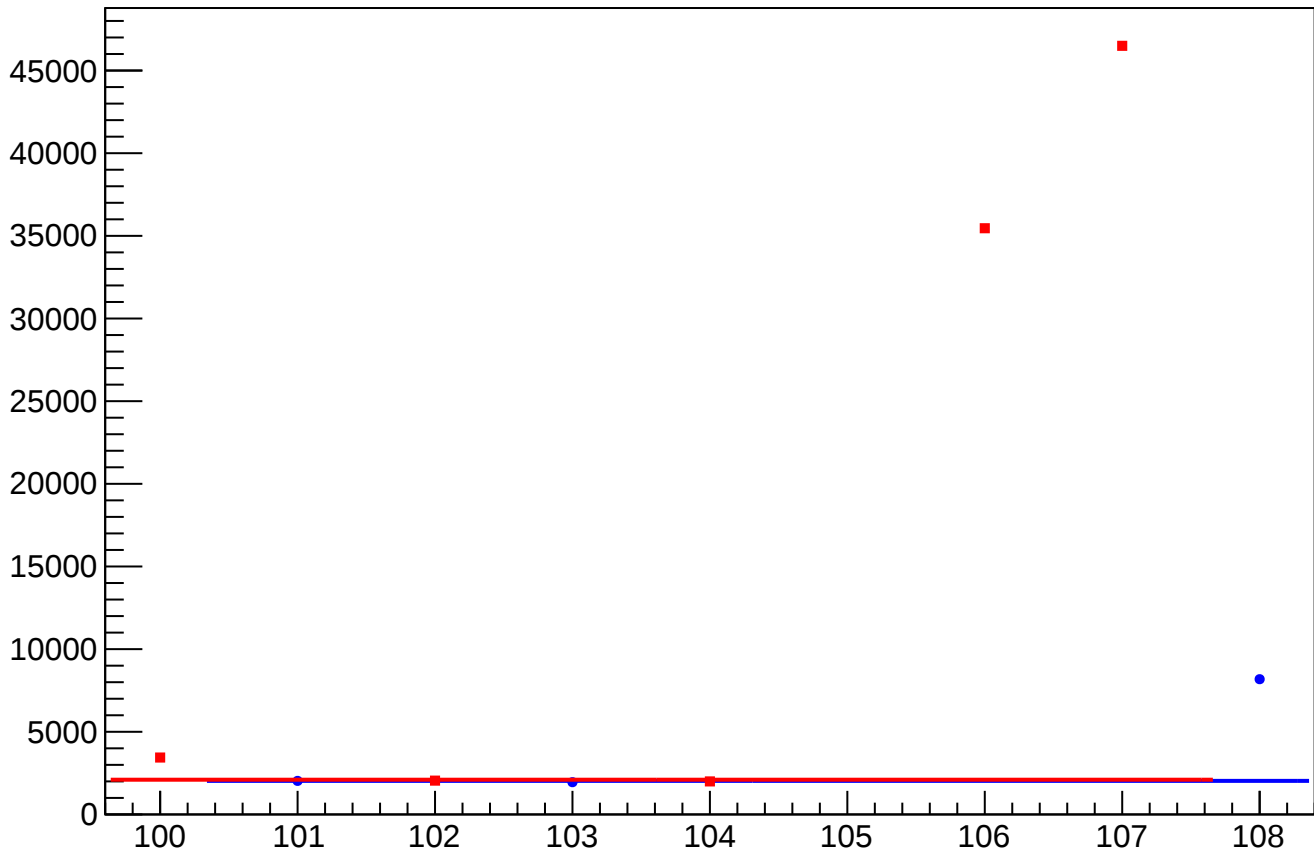
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -3.604+/-1.357  $\chi^2/\text{NDF}$ : 19.3/7

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

# diff\_bpm0l03Y\_rms vs Slug



Right In: 2031.243+/-1.308  $\chi^2/\text{NDF}$ : 147772.7/2

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

Right Out: 2101.560+/-1.412  $\chi^2/\text{NDF}$ : 1136810.9/4

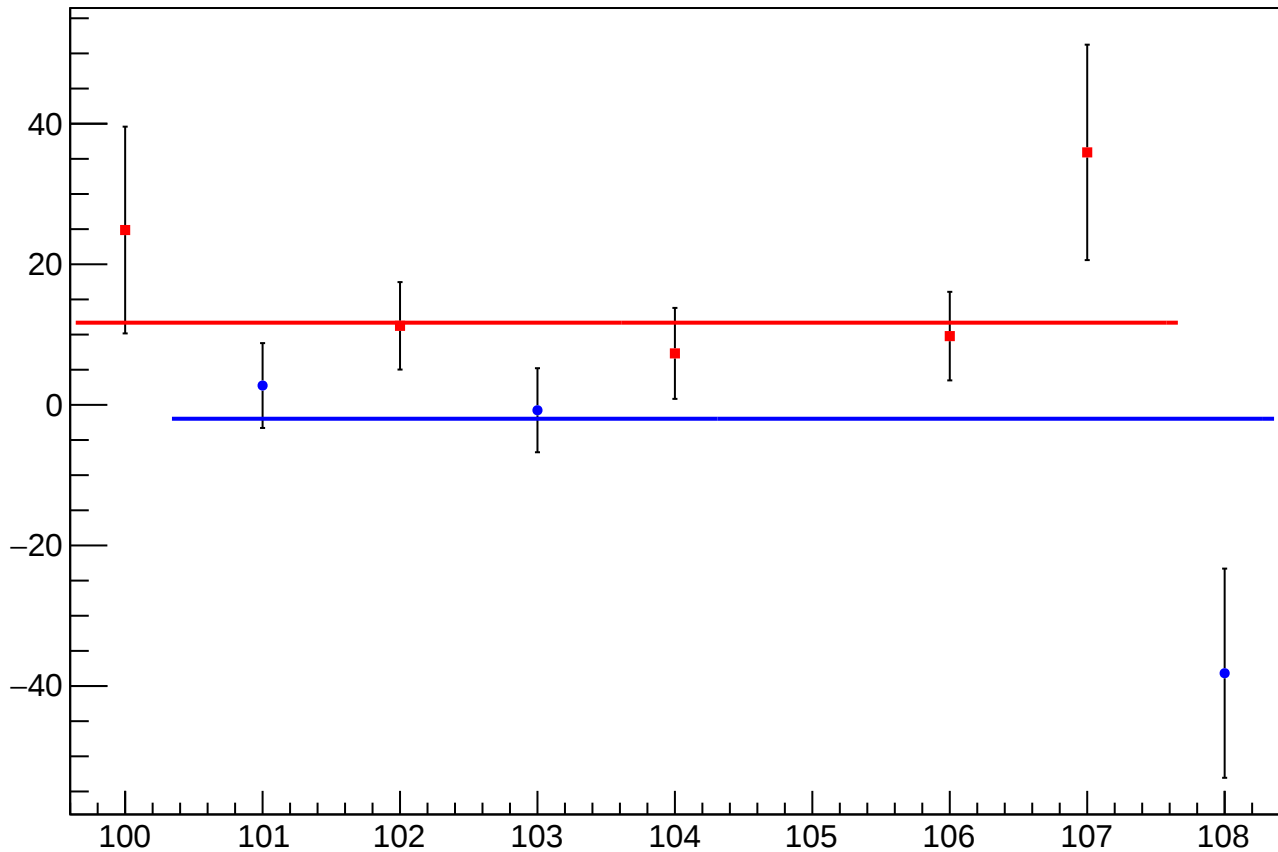
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2063.724+/-0.960  $\chi^2/\text{NDF}$ : 1285917.8/7

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

# diff\_bpm0l04X\_mean vs Slug



Right In:  $-1.974 \pm 4.084$   $\chi^2/\text{NDF}$ : 6.6/2

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

Right Out:  $11.693 \pm 3.455$   $\chi^2/\text{NDF}$ : 3.9/4

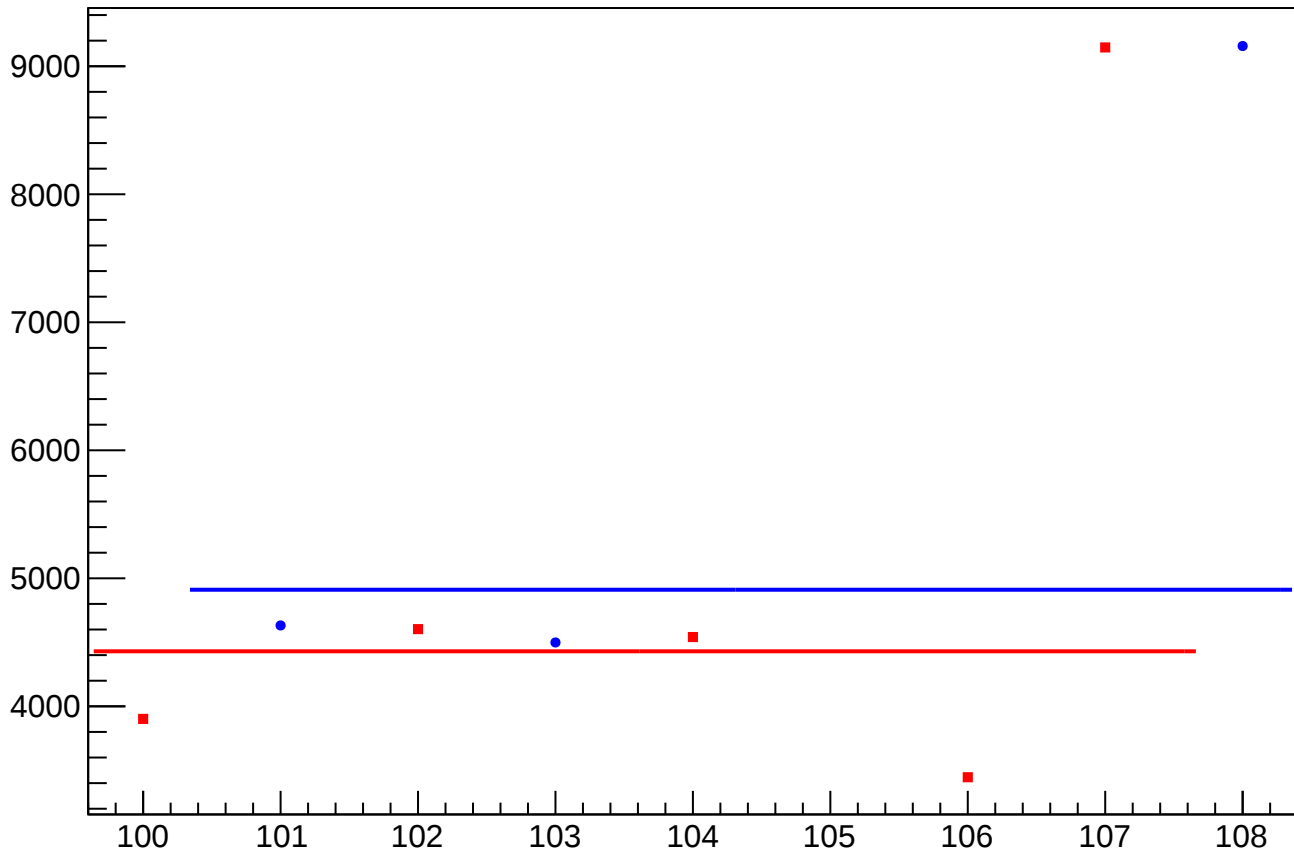
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $5.994 \pm 2.638$   $\chi^2/\text{NDF}$ : 17.0/7

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

# diff\_bpm0l04X\_rms vs Slug



Right In: 4910.779+/-2.888  $\chi^2/\text{NDF}$ : 176718.7/2

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

Right Out: 4429.756+/-2.443  $\chi^2/\text{NDF}$ : 243015.1/4

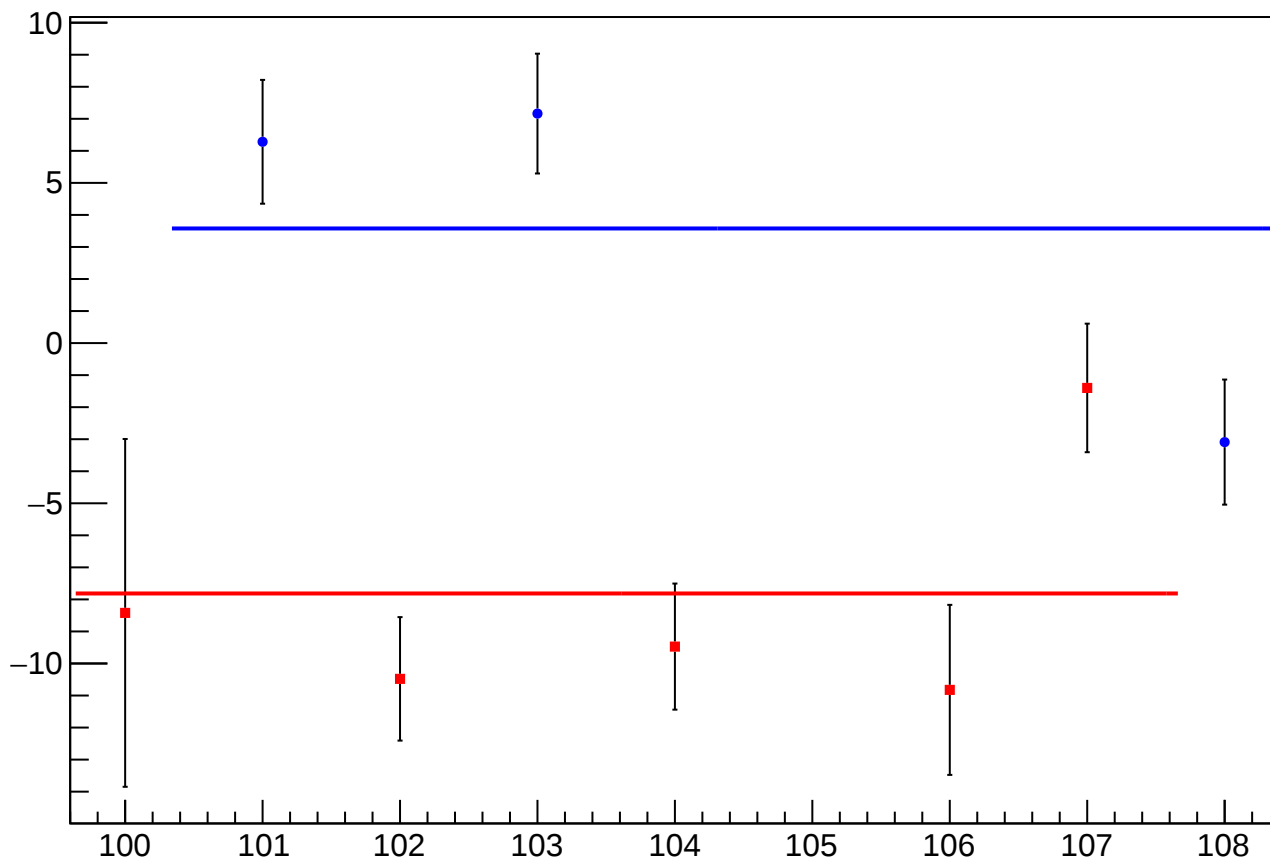
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 4630.357+/-1.865  $\chi^2/\text{NDF}$ : 435904.9/7

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

# diff\_bpm0l04Y\_mean vs Slug



Right In:  $3.577 \pm 1.107$   $\chi^2/\text{NDF}: 17.3/2$

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

Right Out:  $-7.815 \pm 1.025$   $\chi^2/\text{NDF}: 14.1/4$

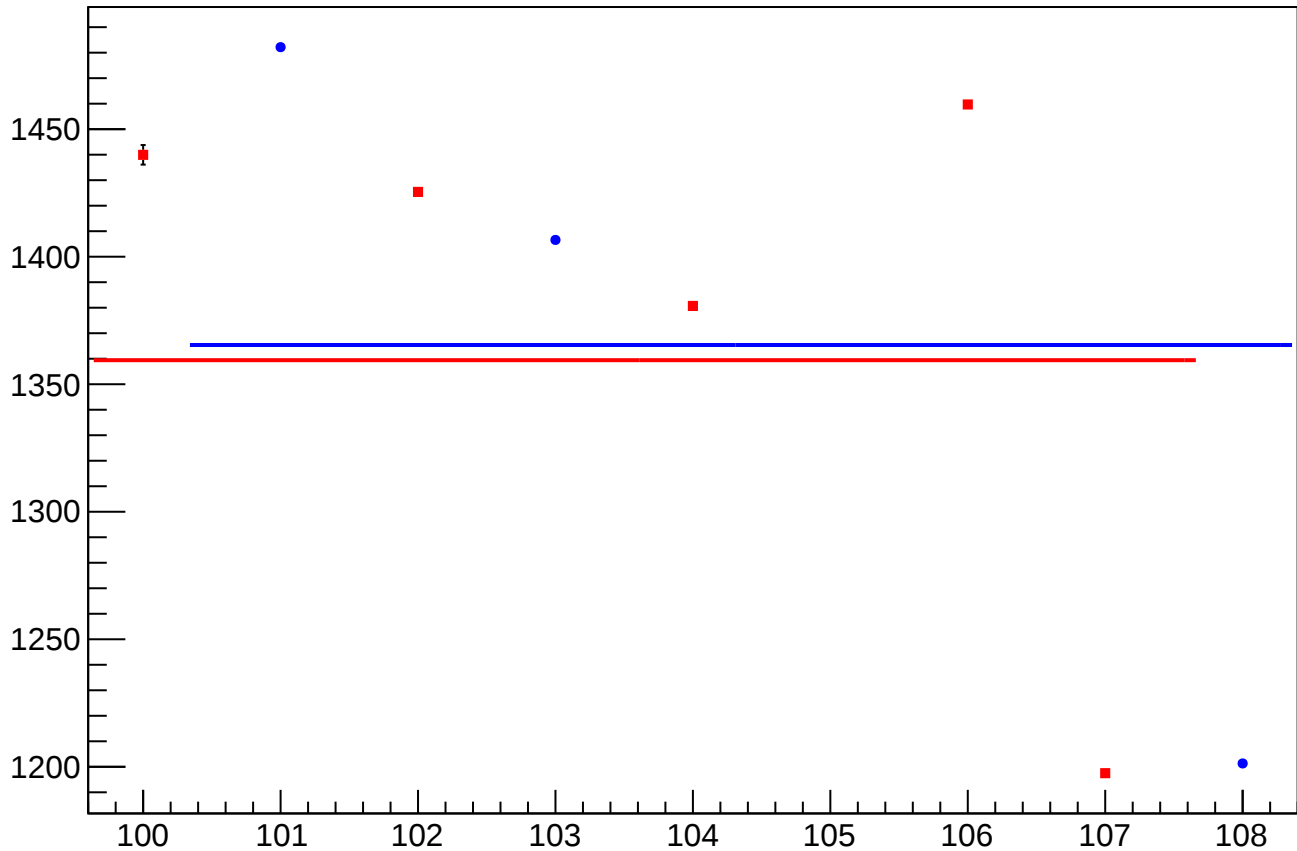
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

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

All:  $-2.556 \pm 0.752$   $\chi^2/\text{NDF}: 88.5/7$

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

# diff\_bpm0l04Y\_rms vs Slug



Right In: 1365.380+/-0.783  $\chi^2/\text{NDF}$ : 22408.8/2

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

Right Out: 1359.427+/-0.725  $\chi^2/\text{NDF}$ : 18903.0/4

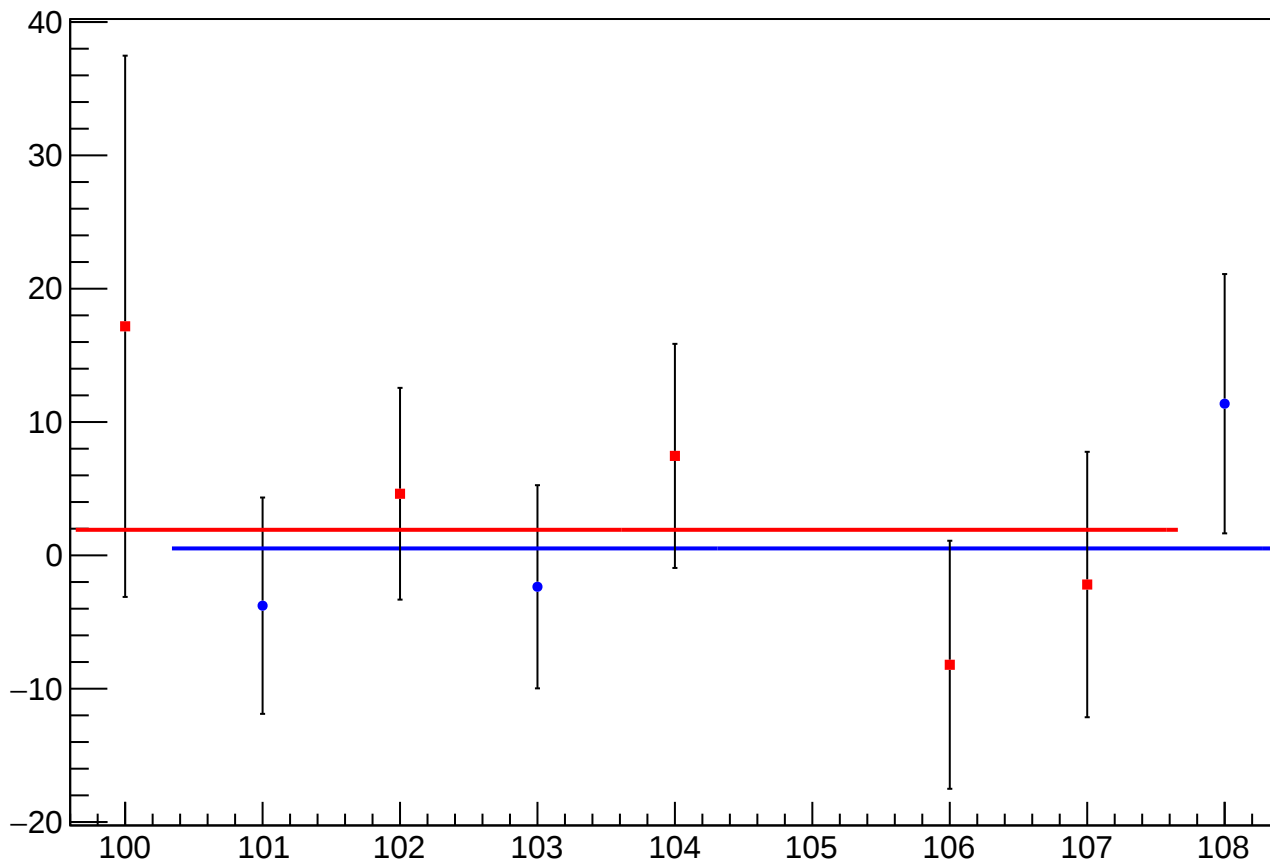
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1362.176+/-0.532  $\chi^2/\text{NDF}$ : 41342.9/7

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

# diff\_bpm0l05X\_mean vs Slug



Right In: 0.520+/-4.823     $\chi^2/\text{NDF}$ : 1.7/2

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

Right Out: 1.917+/-4.299     $\chi^2/\text{NDF}$ : 2.5/4

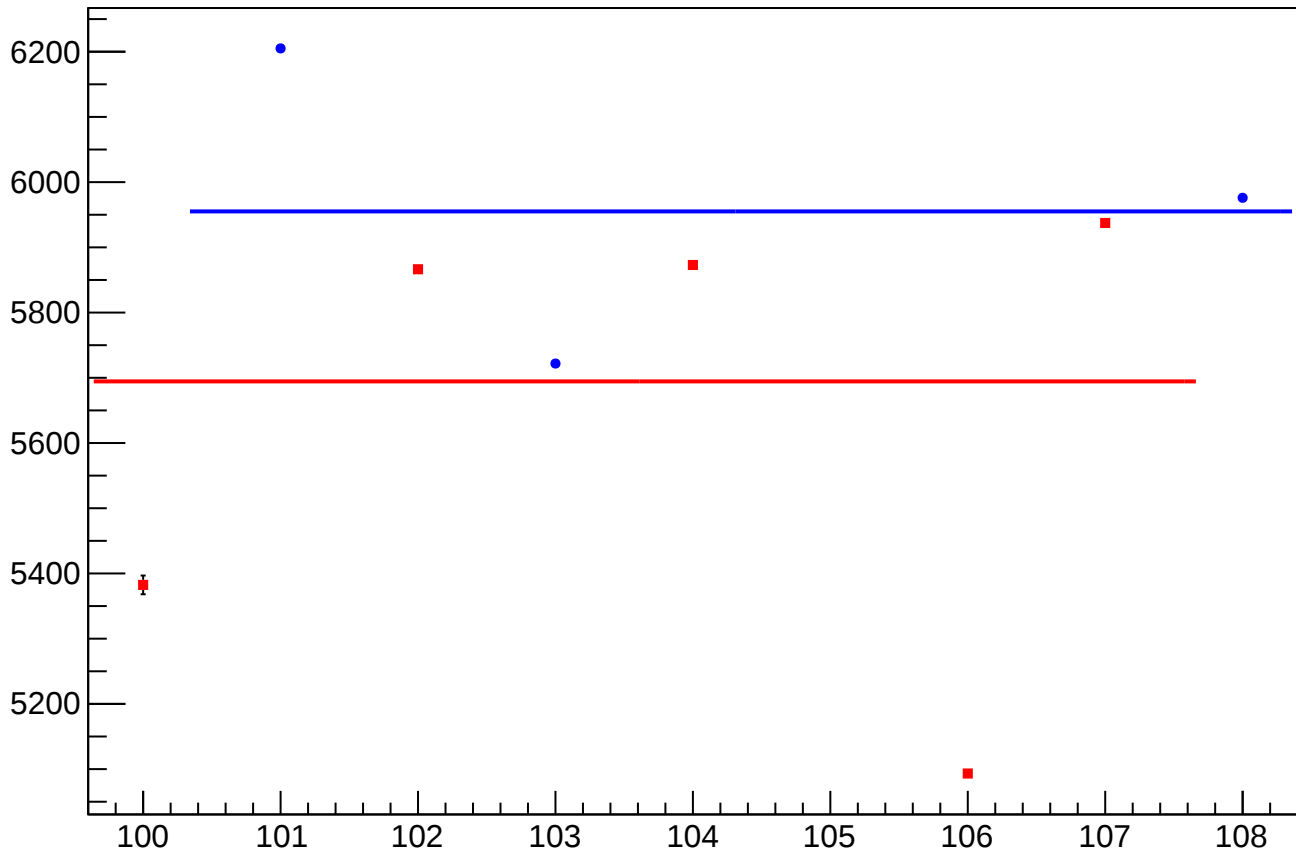
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1.298+/-3.209     $\chi^2/\text{NDF}$ : 4.2/7

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

# diff\_bpm0l05X\_rms vs Slug



Right In: 5955.120 $\pm$ 3.410  $\chi^2$ /NDF: 3781.5/2

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

Right Out: 5694.486 $\pm$ 3.040  $\chi^2$ /NDF: 11858.5/4

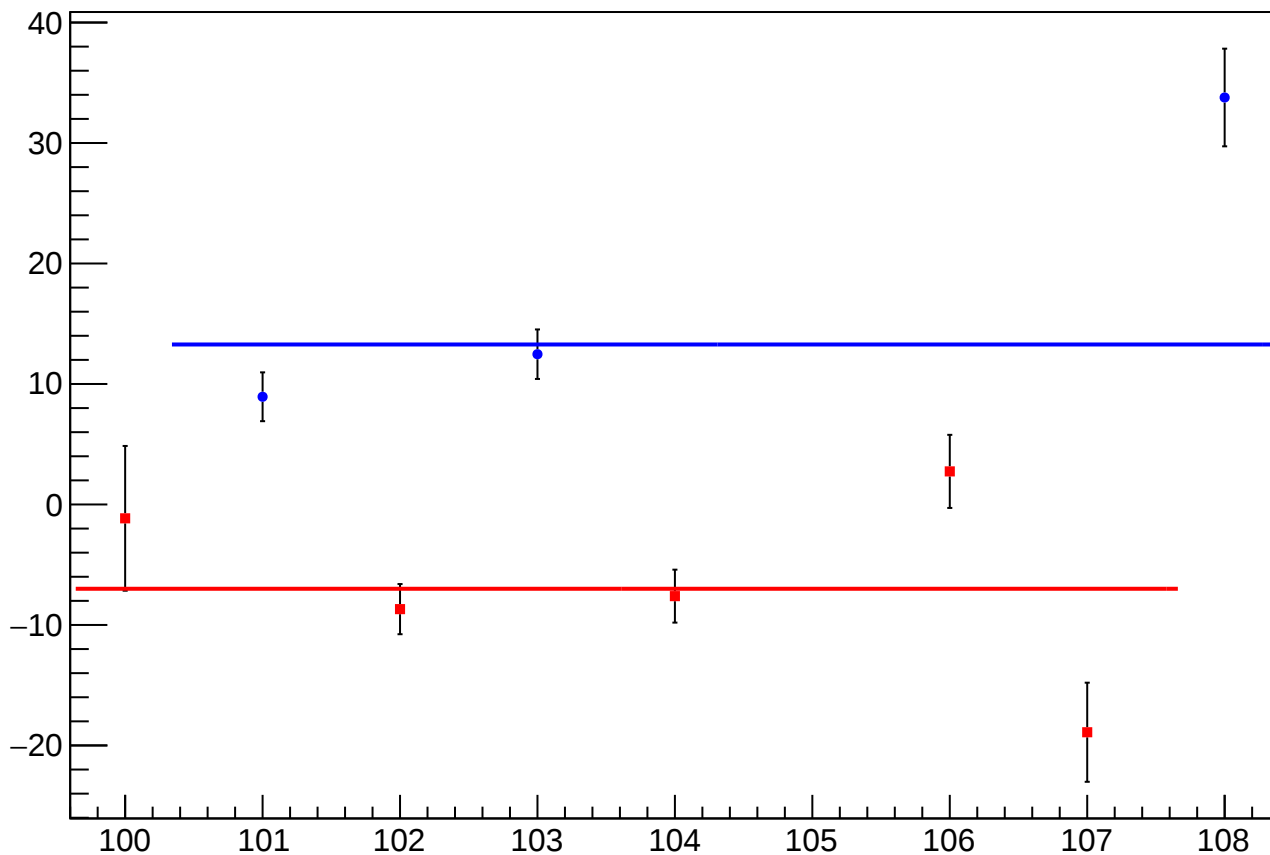
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 5809.901 $\pm$ 2.269  $\chi^2$ /NDF: 18894.6/7

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

# diff\_bpm0l05Y\_mean vs Slug



Right In: 13.278+/-1.359  $\chi^2/\text{NDF}$ : 30.3/2

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

Right Out: -6.996+/-1.257  $\chi^2/\text{NDF}$ : 20.4/4

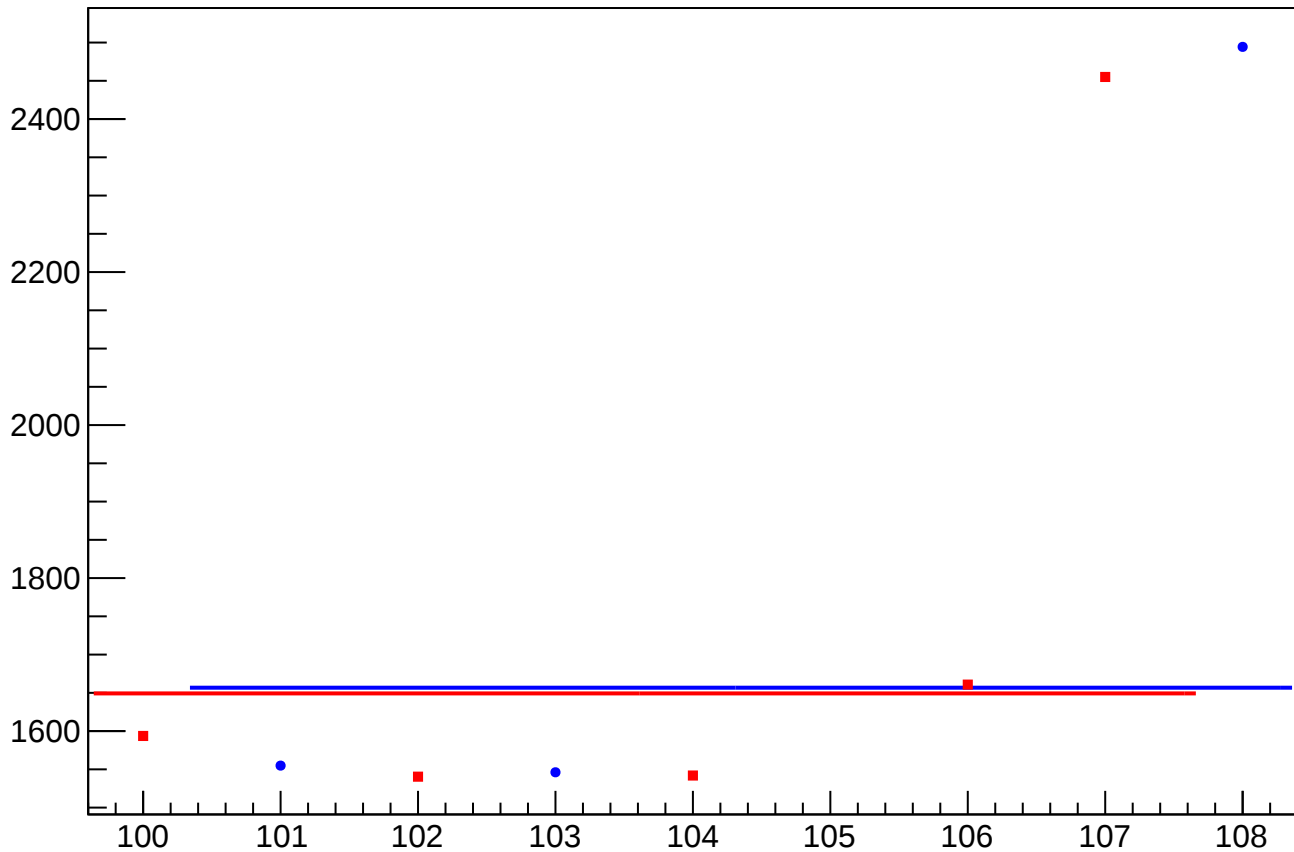
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2.347+/-0.923  $\chi^2/\text{NDF}$ : 170.7/7

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

# diff\_bpm0l05Y\_rms vs Slug



Right In: 1656.730+/-0.961  $\chi^2/\text{NDF}$ : 96282.2/2

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

Right Out: 1649.258+/-0.889  $\chi^2/\text{NDF}$ : 87201.9/4

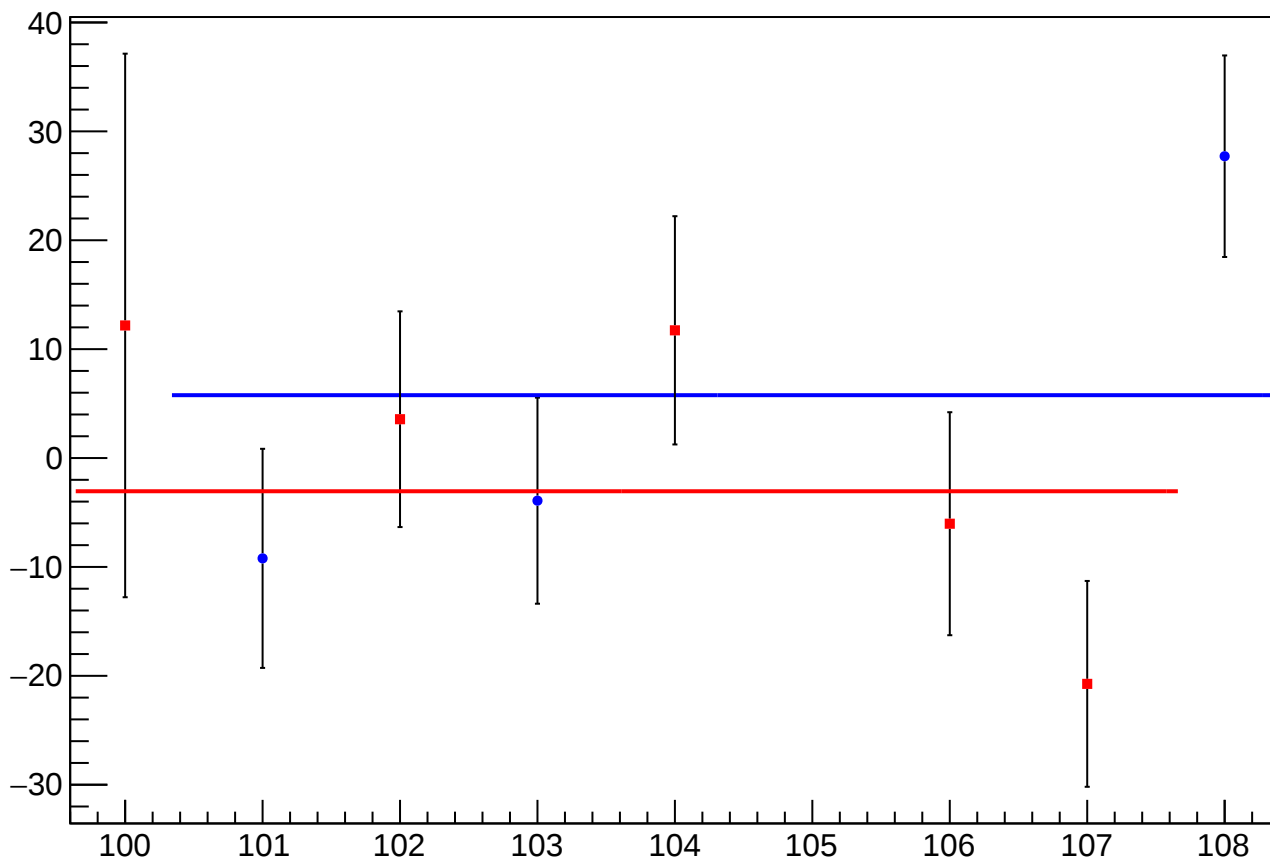
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1652.701+/-0.652  $\chi^2/\text{NDF}$ : 183516.6/7

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

# diff\_bpm0l06X\_mean vs Slug



Right In: 5.773 $\pm$ 5.528  $\chi^2$ /NDF: 8.9/2

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

Right Out: -3.050 $\pm$ 4.901  $\chi^2$ /NDF: 6.4/4

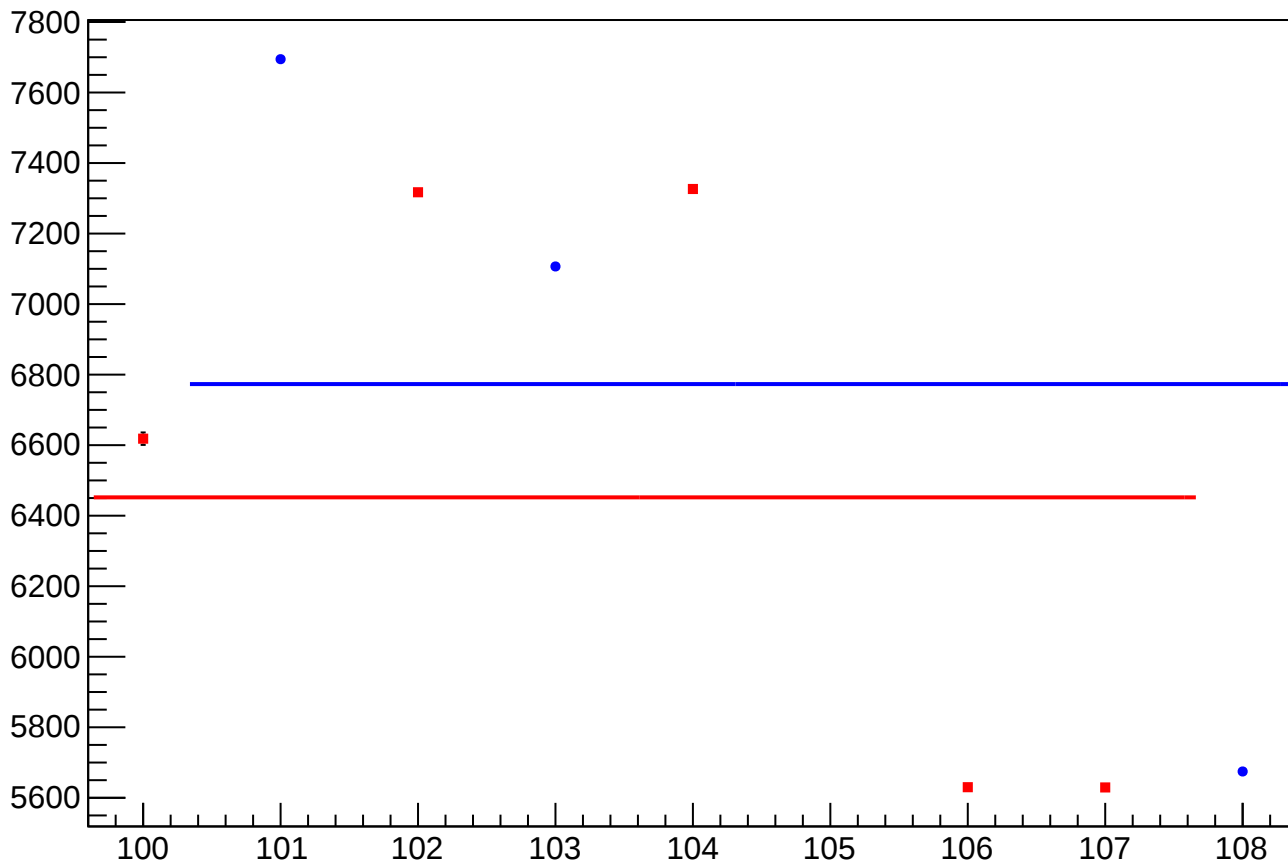
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.833 $\pm$ 3.667  $\chi^2$ /NDF: 16.7/7

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

# diff\_bpm0l06X\_rms vs Slug



Right In: 6773.194 $\pm$ 3.909  $\chi^2$ /NDF: 47442.8/2

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

Right Out: 6451.977 $\pm$ 3.465  $\chi^2$ /NDF: 57304.4/4

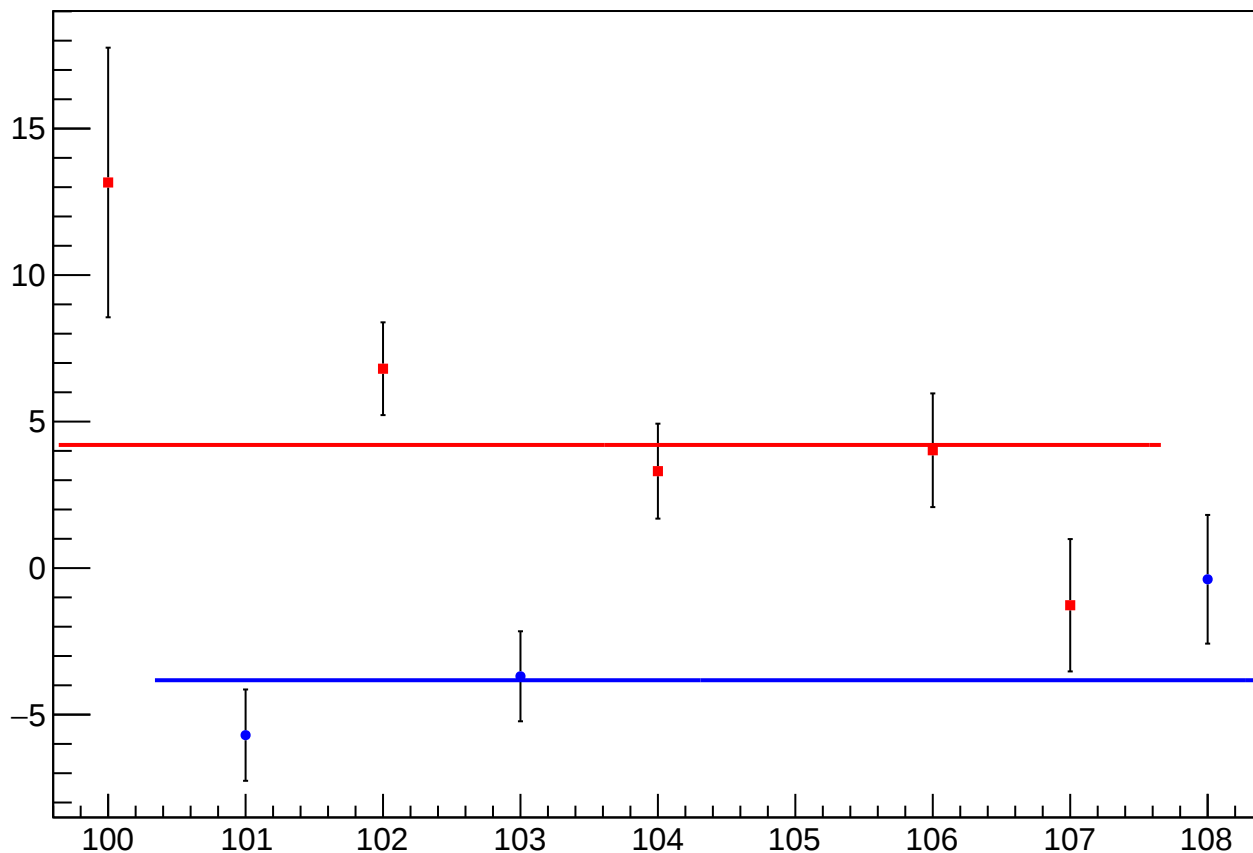
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 6593.344 $\pm$ 2.593  $\chi^2$ /NDF: 108528.3/7

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

# diff\_bpm0l06Y\_mean vs Slug



Right In:  $-3.827 \pm 0.979$   $\chi^2/\text{NDF}$ : 3.9/2

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

Right Out:  $4.203 \pm 0.881$   $\chi^2/\text{NDF}$ : 12.7/4

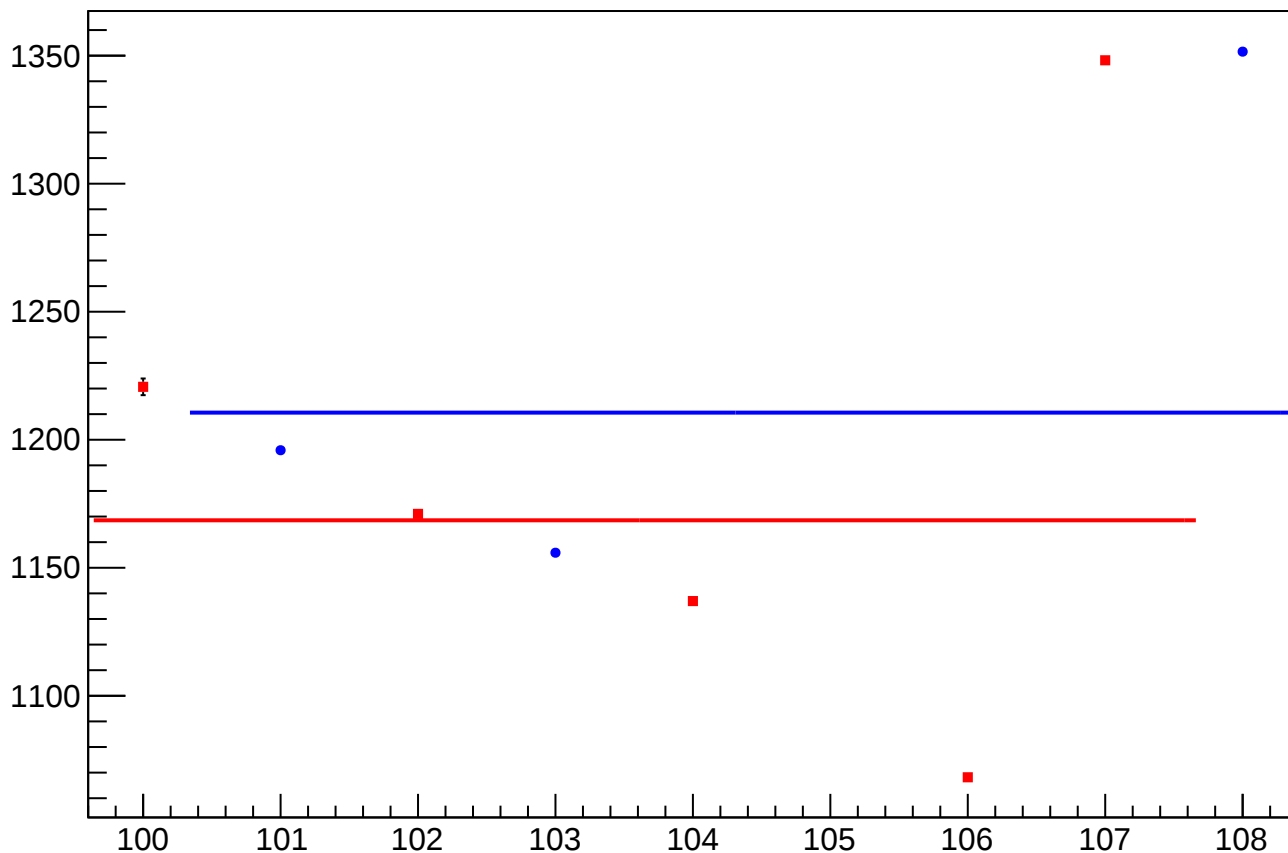
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $0.612 \pm 0.655$   $\chi^2/\text{NDF}$ : 53.8/7

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

# diff\_bpm0l06Y\_rms vs Slug



Right In: 1210.594+/-0.692  $\chi^2/\text{NDF}$ : 10958.2/2

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

Right Out: 1168.539+/-0.623  $\chi^2/\text{NDF}$ : 19026.9/4

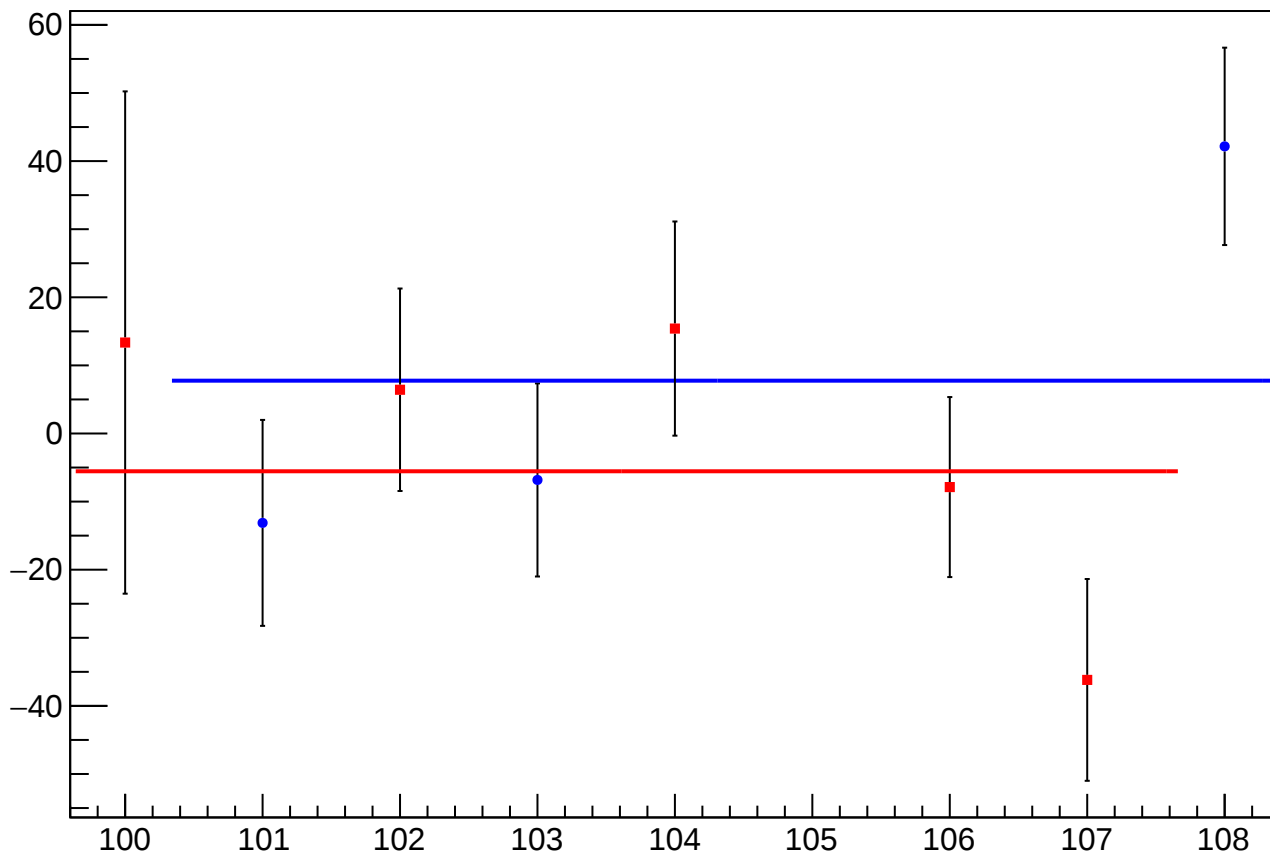
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1187.348+/-0.463  $\chi^2/\text{NDF}$ : 32024.4/7

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

# diff\_bpm0l07X\_mean vs Slug



Right In: 7.756+/-8.419  $\chi^2/\text{NDF}$ : 8.6/2

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

Right Out: -5.548+/-7.146  $\chi^2/\text{NDF}$ : 7.0/4

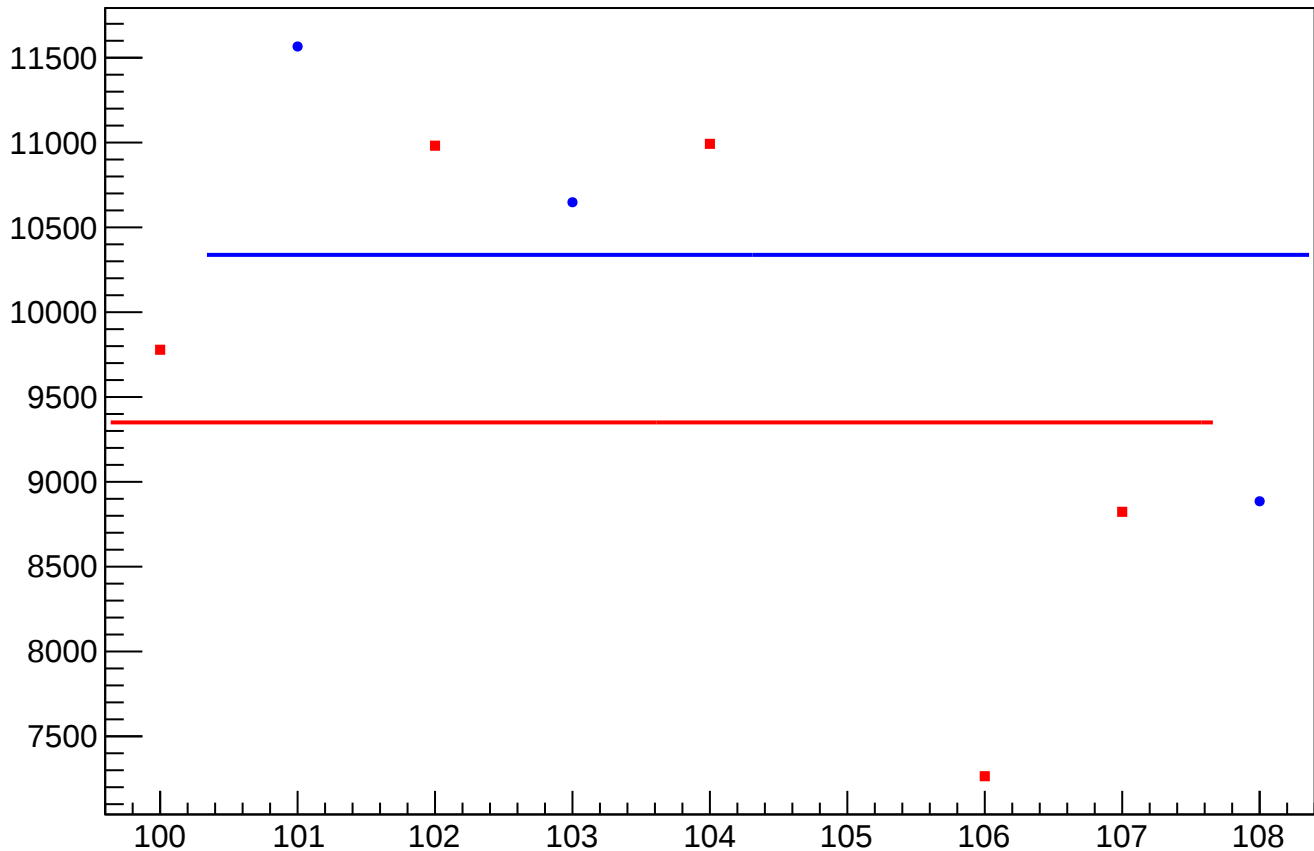
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.023+/-5.448  $\chi^2/\text{NDF}$ : 17.0/7

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

# diff\_bpm0l07X\_rms vs Slug



Right In: 10337.894 $\pm$ 5.953  $\chi^2$ /NDF: 34243.6/2

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

Right Out: 9350.299 $\pm$ 5.053  $\chi^2$ /NDF: 98484.8/4

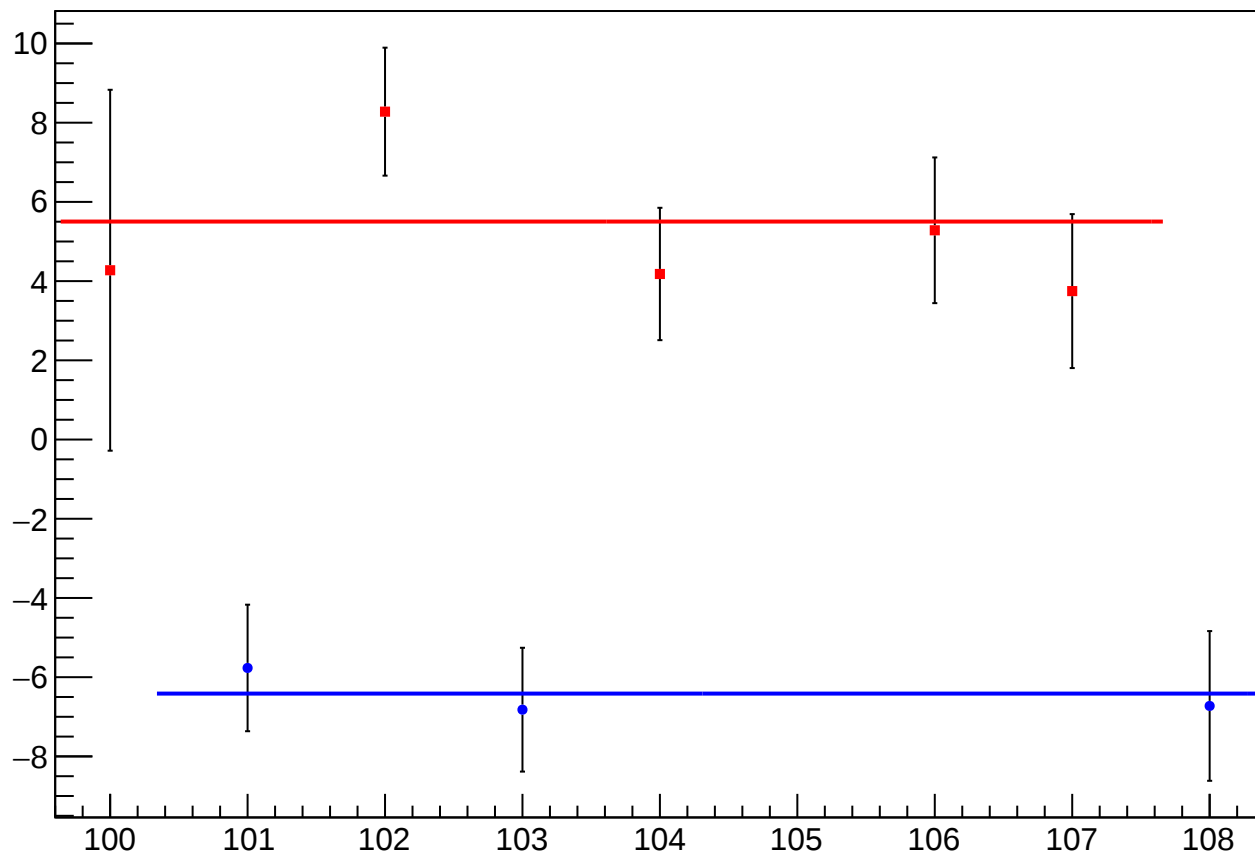
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 9763.853 $\pm$ 3.852  $\chi^2$ /NDF: 148725.6/7

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

# diff\_bpm0l07Y\_mean vs Slug



Right In:  $-6.414 \pm 0.962$   $\chi^2/\text{NDF}$ : 0.3/2

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

Right Out:  $5.504 \pm 0.861$   $\chi^2/\text{NDF}$ : 4.5/4

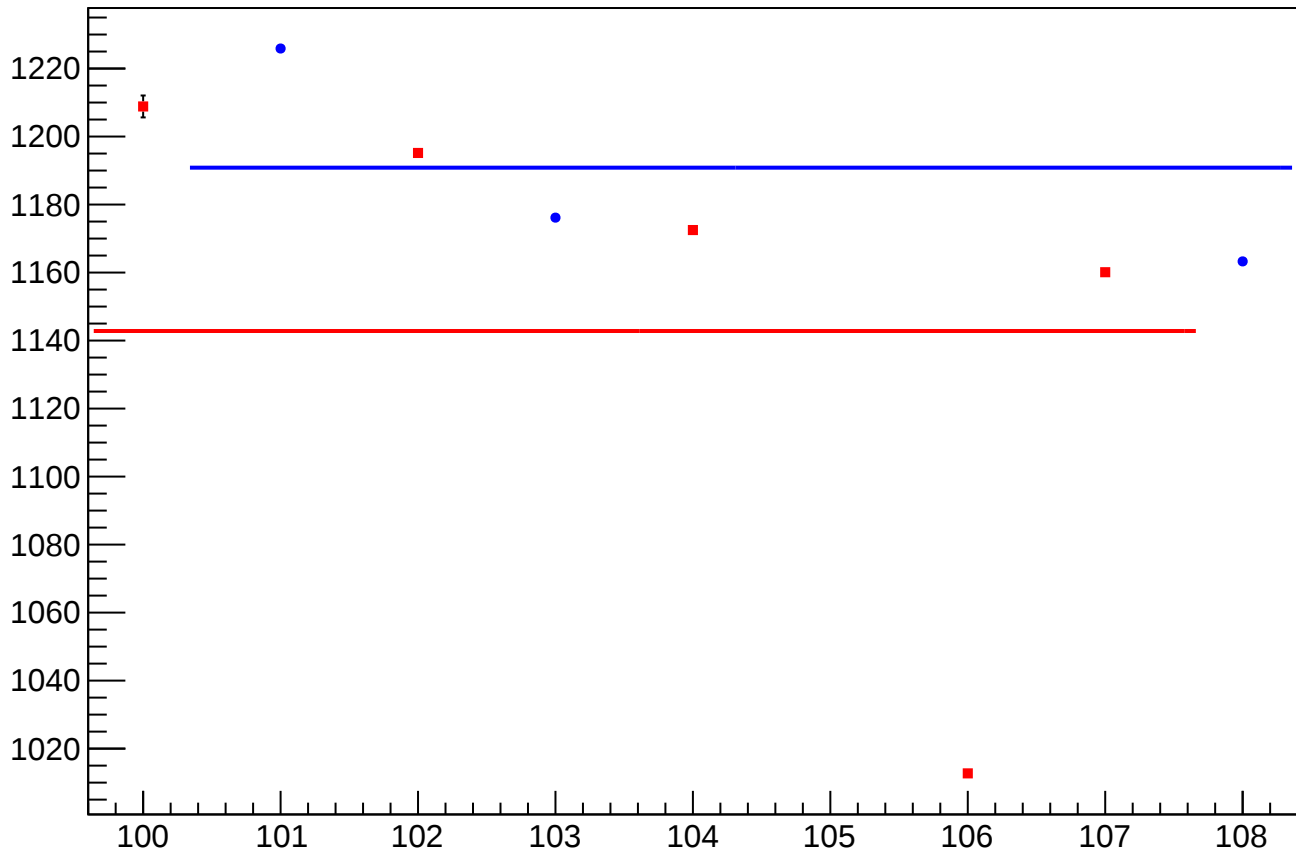
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $0.204 \pm 0.641$   $\chi^2/\text{NDF}$ : 90.0/7

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

# diff\_bpm0l07Y\_rms vs Slug



Right In: 1190.849 $\pm$ 0.680  $\chi^2$ /NDF: 1564.4/2

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

Right Out: 1142.815 $\pm$ 0.609  $\chi^2$ /NDF: 13315.9/4

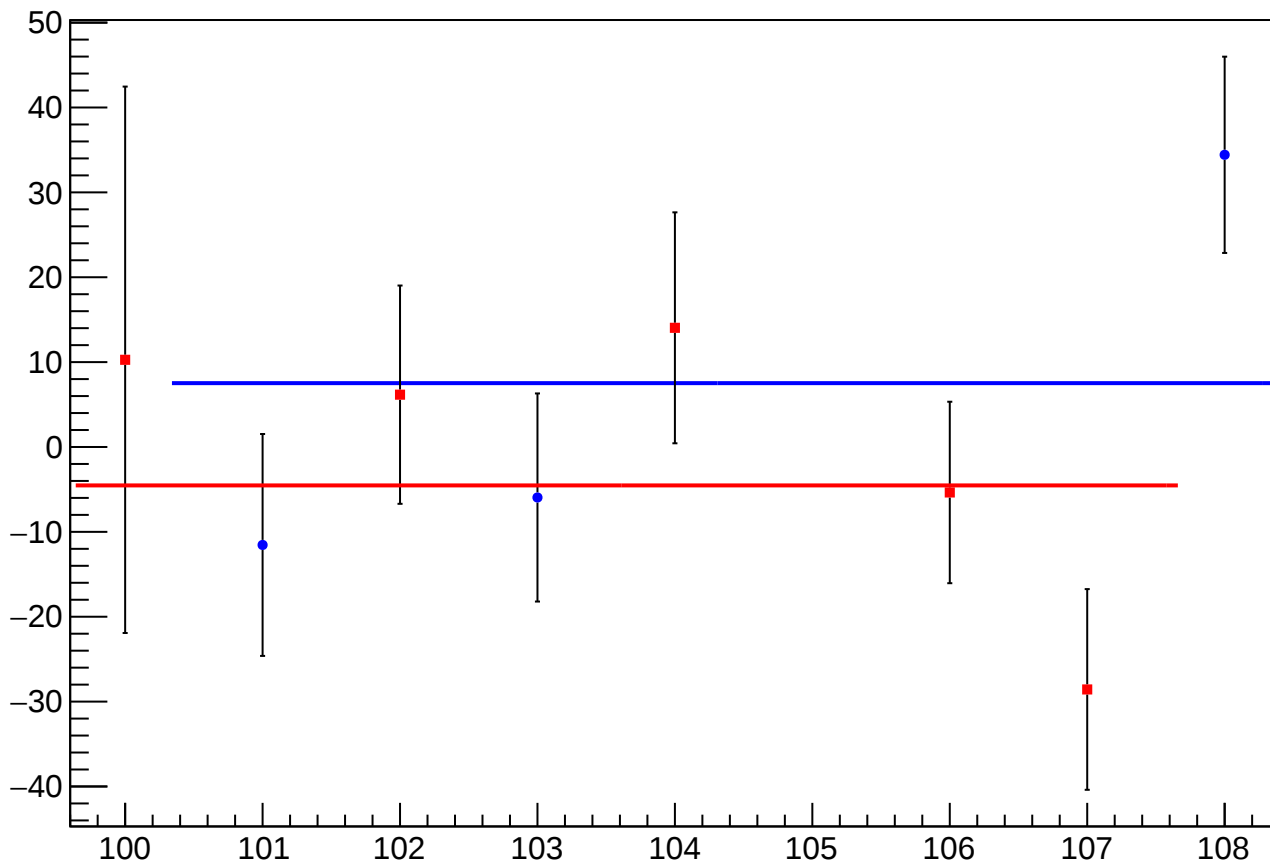
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1164.177 $\pm$ 0.454  $\chi^2$ /NDF: 17650.5/7

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

# diff\_bpm0l08X\_mean vs Slug



Right In: 7.522 $\pm$ 7.074  $\chi^2$ /NDF: 8.7/2

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

Right Out: -4.528 $\pm$ 5.943  $\chi^2$ /NDF: 6.9/4

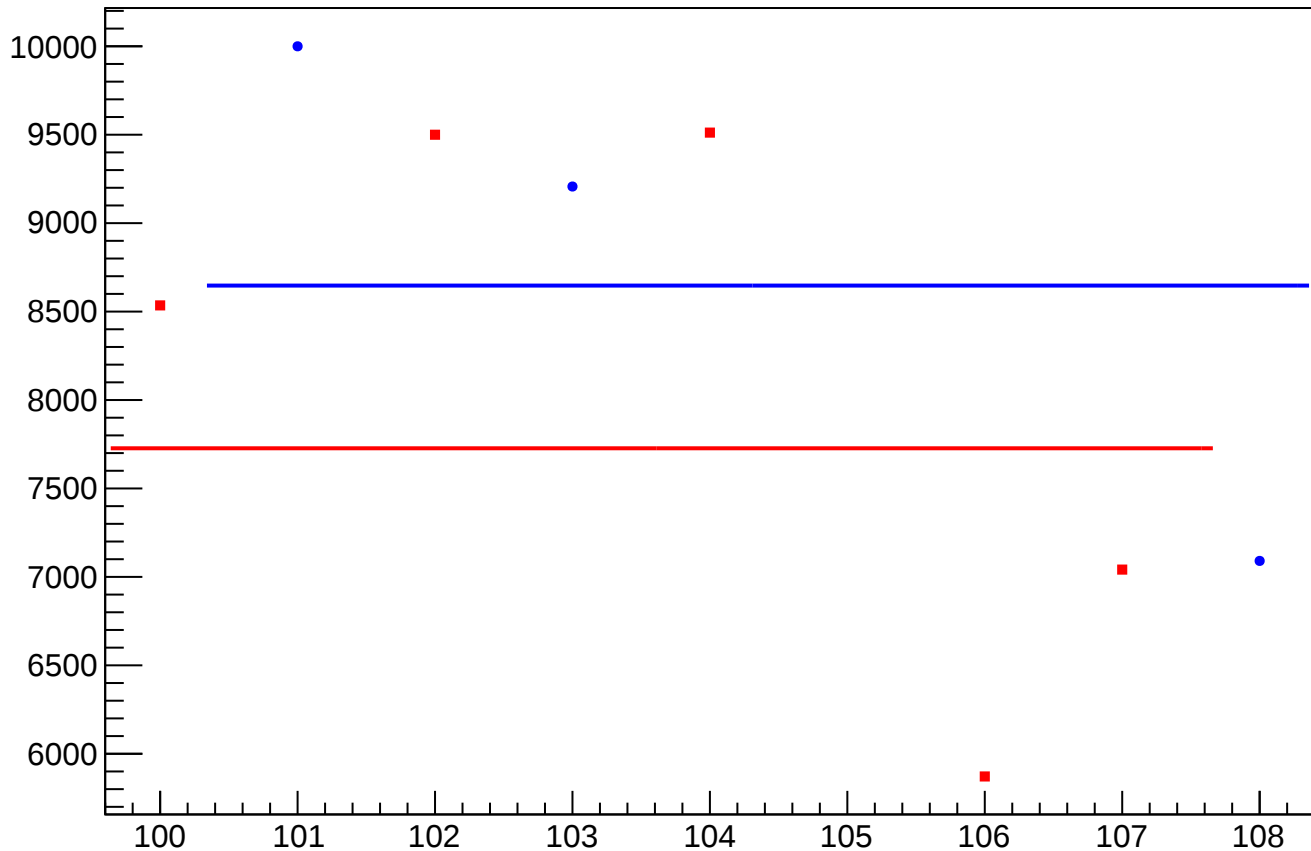
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.458 $\pm$ 4.550  $\chi^2$ /NDF: 17.4/7

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

# diff\_bpm0l08X\_rms vs Slug



Right In: 8647.045 $\pm$ 5.002  $\chi^2$ /NDF: 61832.1/2

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

Right Out: 7727.139 $\pm$ 4.202  $\chi^2$ /NDF: 140654.7/4

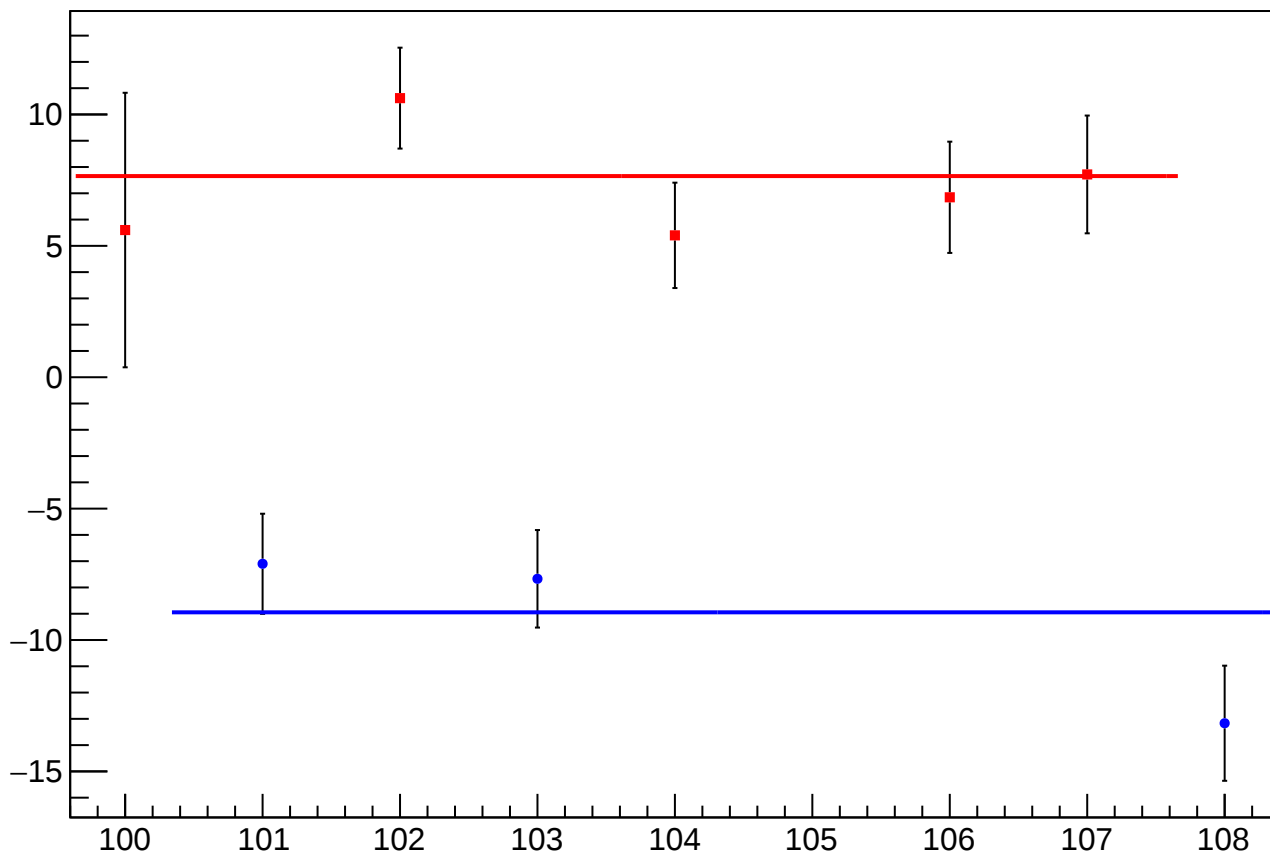
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 8107.727 $\pm$ 3.217  $\chi^2$ /NDF: 222315.0/7

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

# diff\_bpm0l08Y\_mean vs Slug



Right In: -8.947 $\pm$ 1.136  $\chi^2$ /NDF: 5.1/2

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

Right Out: 7.655 $\pm$ 1.011  $\chi^2$ /NDF: 4.0/4

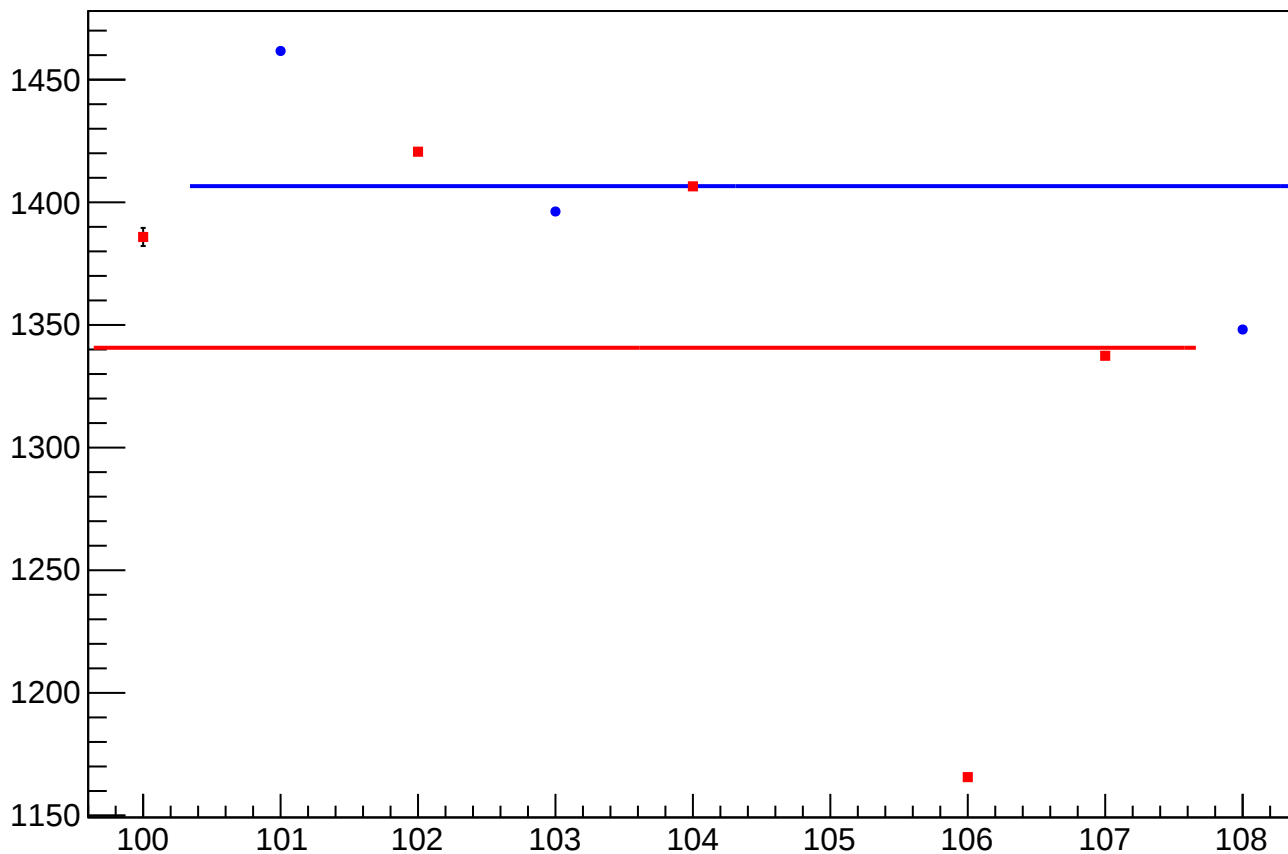
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.323 $\pm$ 0.755  $\chi^2$ /NDF: 128.2/7

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

# diff\_bpm0l08Y\_rms vs Slug



Right In: 1406.600 $\pm$ 0.804  $\chi^2$ /NDF: 3159.3/2

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

Right Out: 1340.705 $\pm$ 0.715  $\chi^2$ /NDF: 19447.1/4

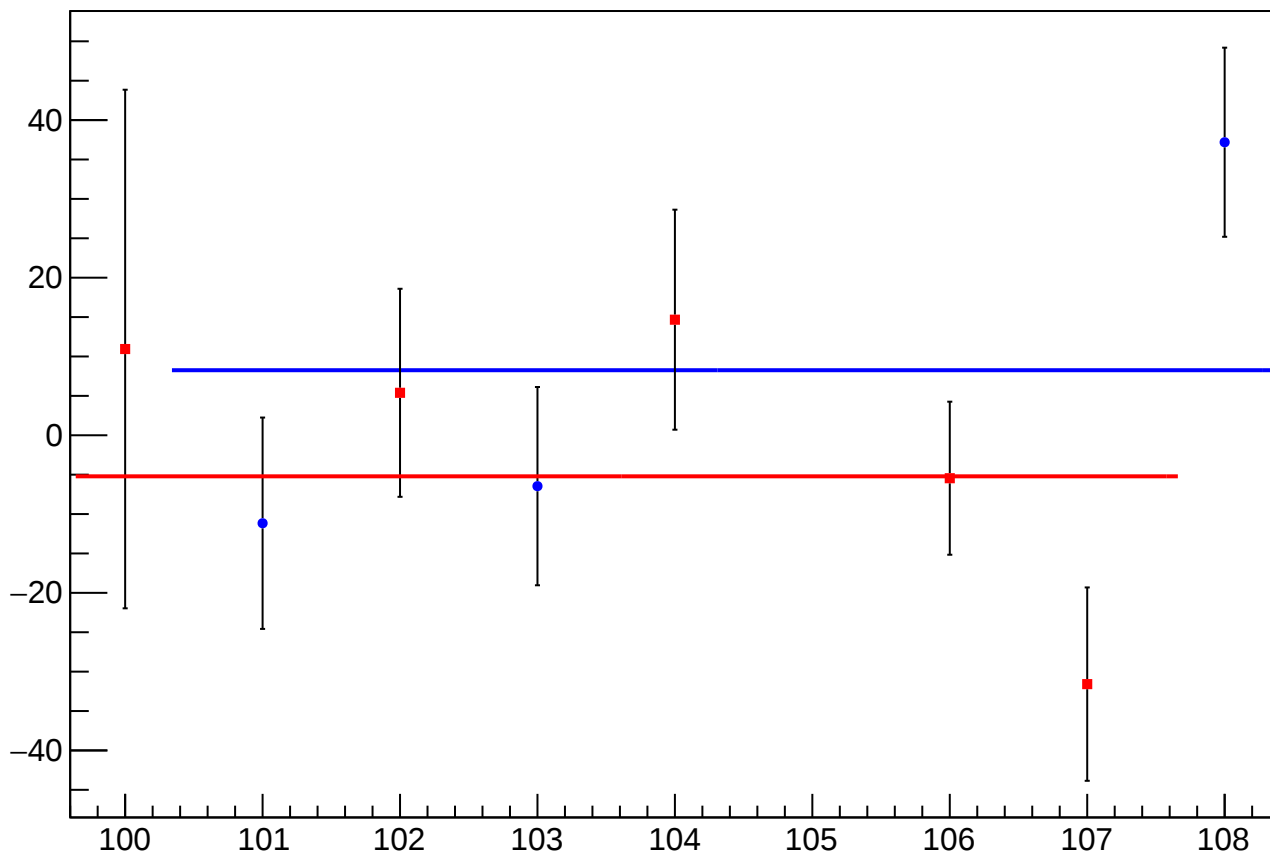
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1369.807 $\pm$ 0.534  $\chi^2$ /NDF: 26360.8/7

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

# diff\_bpm0l09X\_mean vs Slug



Right In: 8.256+/-7.290  $\chi^2/\text{NDF}$ : 9.3/2

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

Right Out: -5.211+/-5.869  $\chi^2/\text{NDF}$ : 7.5/4

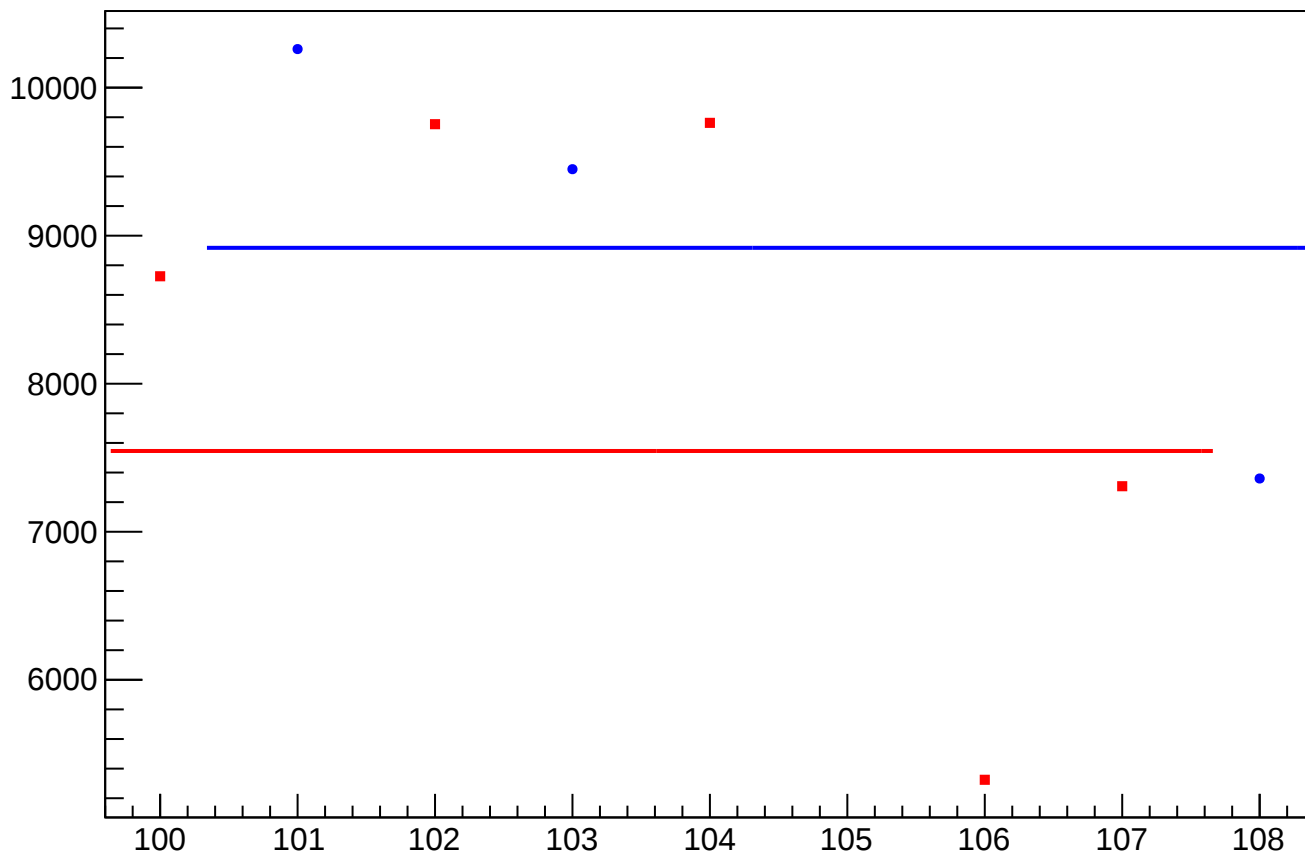
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.085+/-4.571  $\chi^2/\text{NDF}$ : 18.9/7

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

# diff\_bpm0l09X\_rms vs Slug



Right In: 8917.941+/-5.155  $\chi^2/\text{NDF}$ : 57315.3/2

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

Right Out: 7545.605+/-4.150  $\chi^2/\text{NDF}$ : 214218.9/4

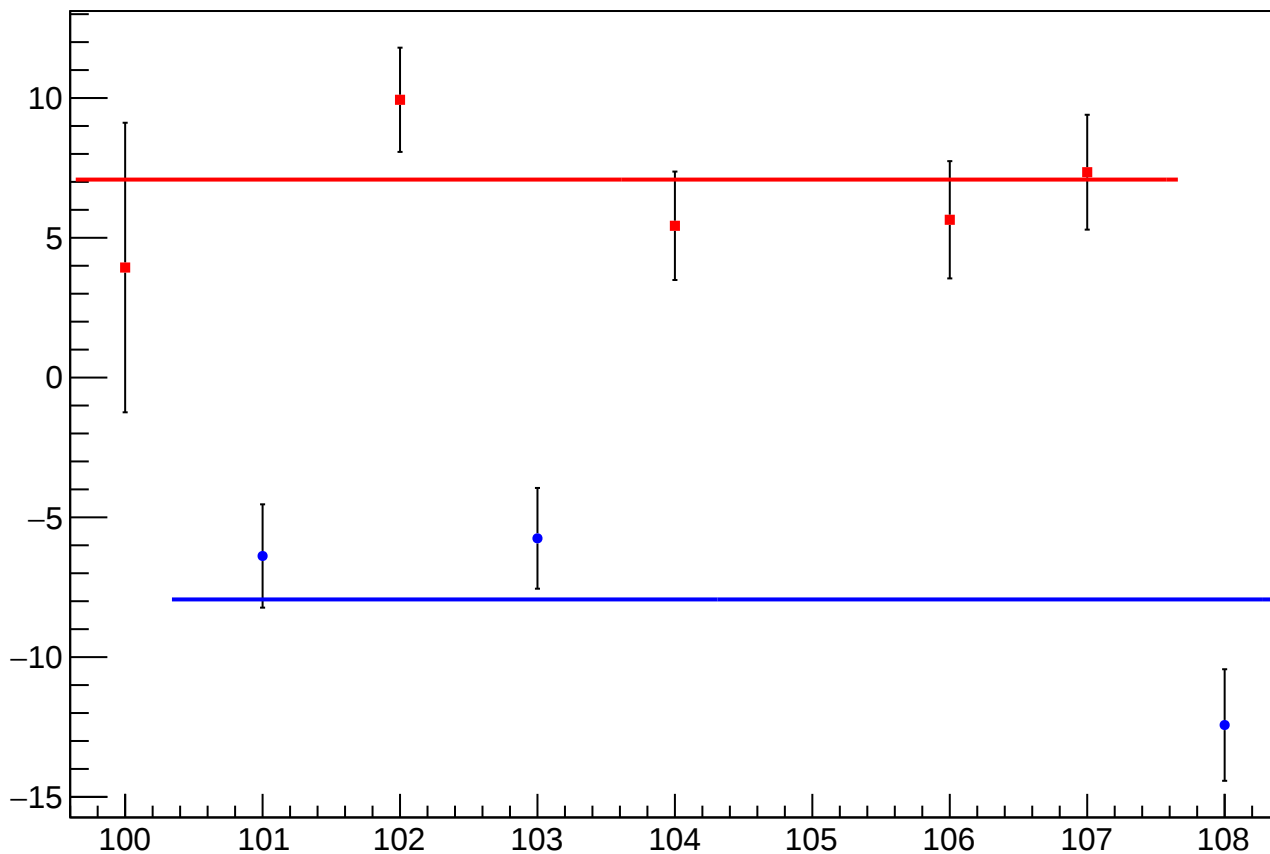
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 8085.304+/-3.233  $\chi^2/\text{NDF}$ : 314539.6/7

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

# diff\_bpm0l09Y\_mean vs Slug



Right In:  $-7.937 \pm 1.083$   $\chi^2/\text{NDF}: 7.2/2$

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

Right Out:  $7.083 \pm 0.974$   $\chi^2/\text{NDF}: 3.9/4$

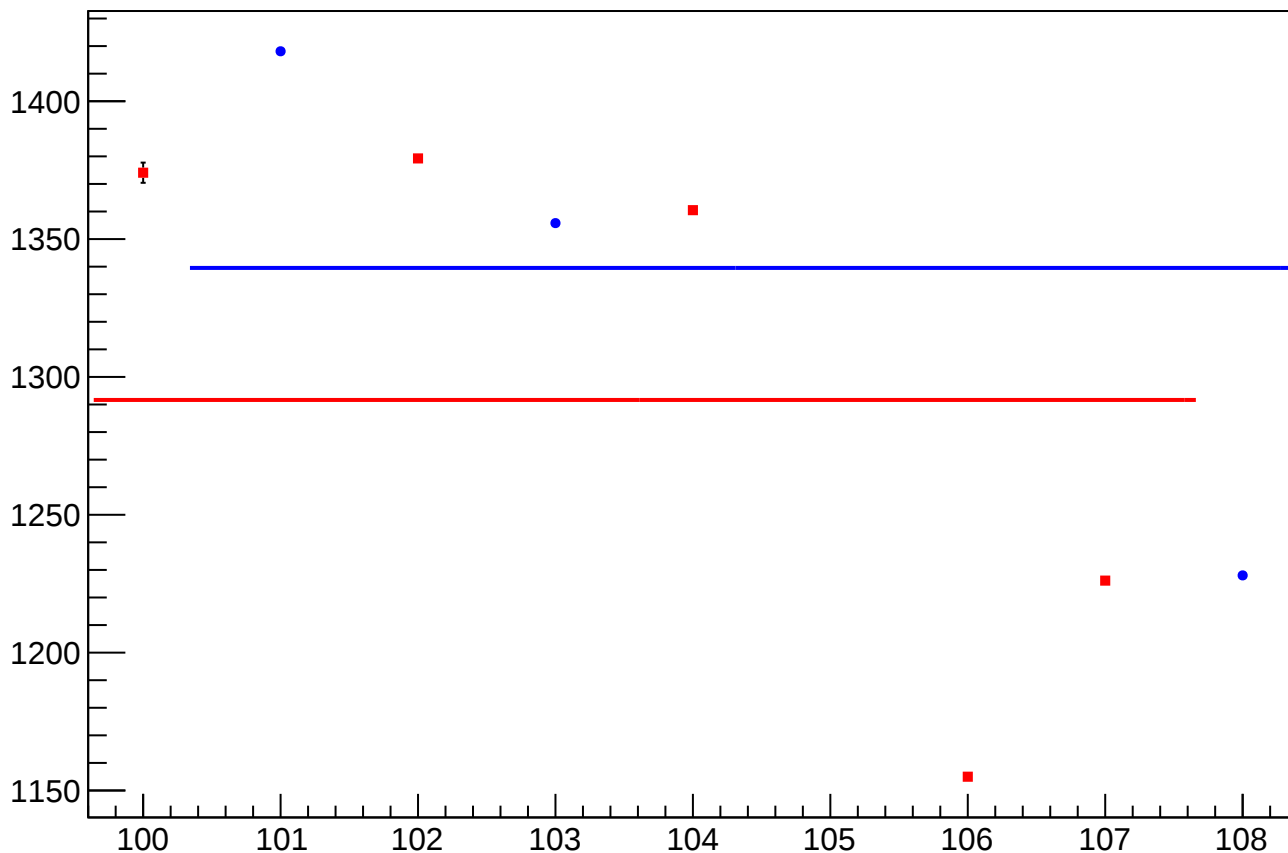
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

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

All:  $0.373 \pm 0.724$   $\chi^2/\text{NDF}: 117.5/7$

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

# diff\_bpm0l09Y\_rms vs Slug



Right In: 1339.540 $\pm$ 0.766  $\chi^2$ /NDF: 10025.5/2

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

Right Out: 1291.649 $\pm$ 0.688  $\chi^2$ /NDF: 17965.6/4

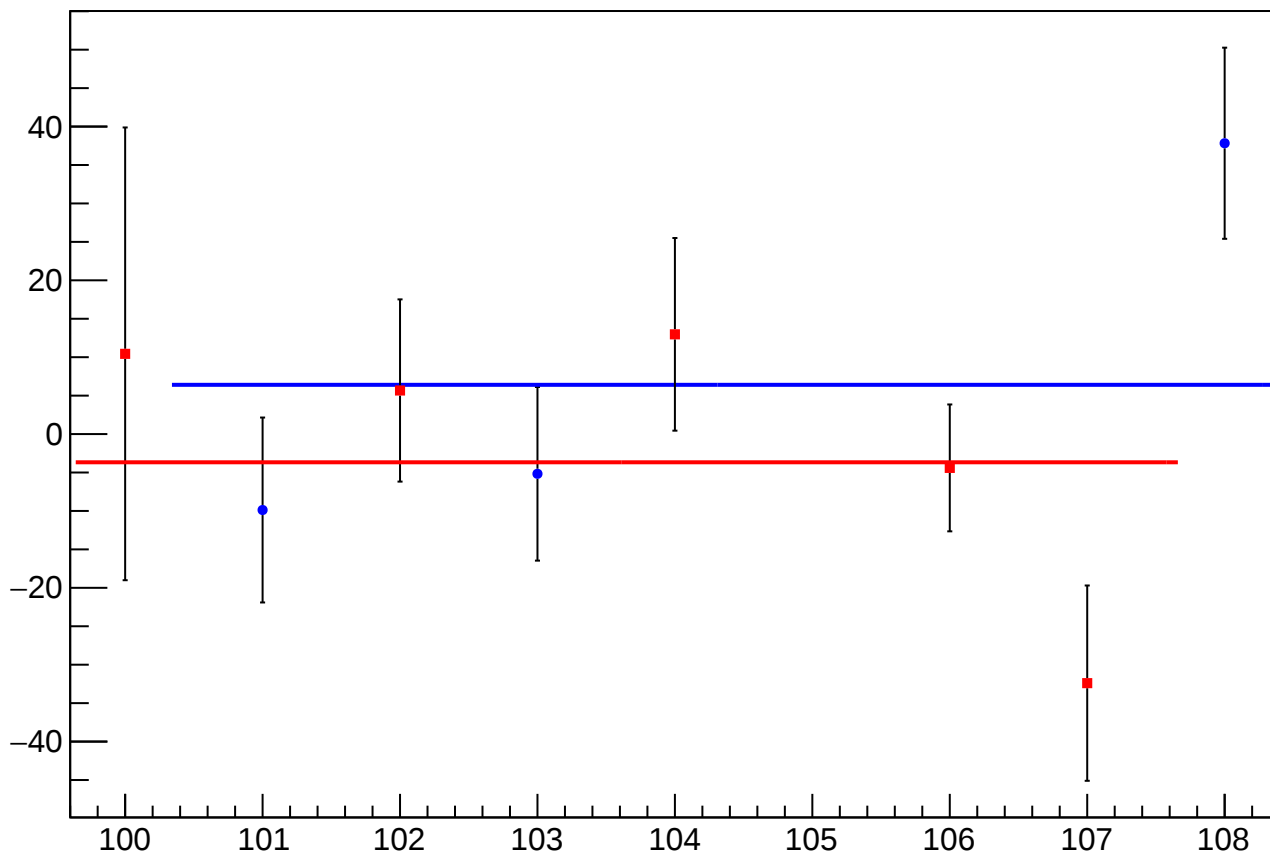
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1313.043 $\pm$ 0.512  $\chi^2$ /NDF: 30153.1/7

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

# diff\_bpm0l10X\_mean vs Slug



Right In: 6.406+/-6.864  $\chi^2/\text{NDF}$ : 9.3/2

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

Right Out: -3.671+/-5.306  $\chi^2/\text{NDF}$ : 7.7/4

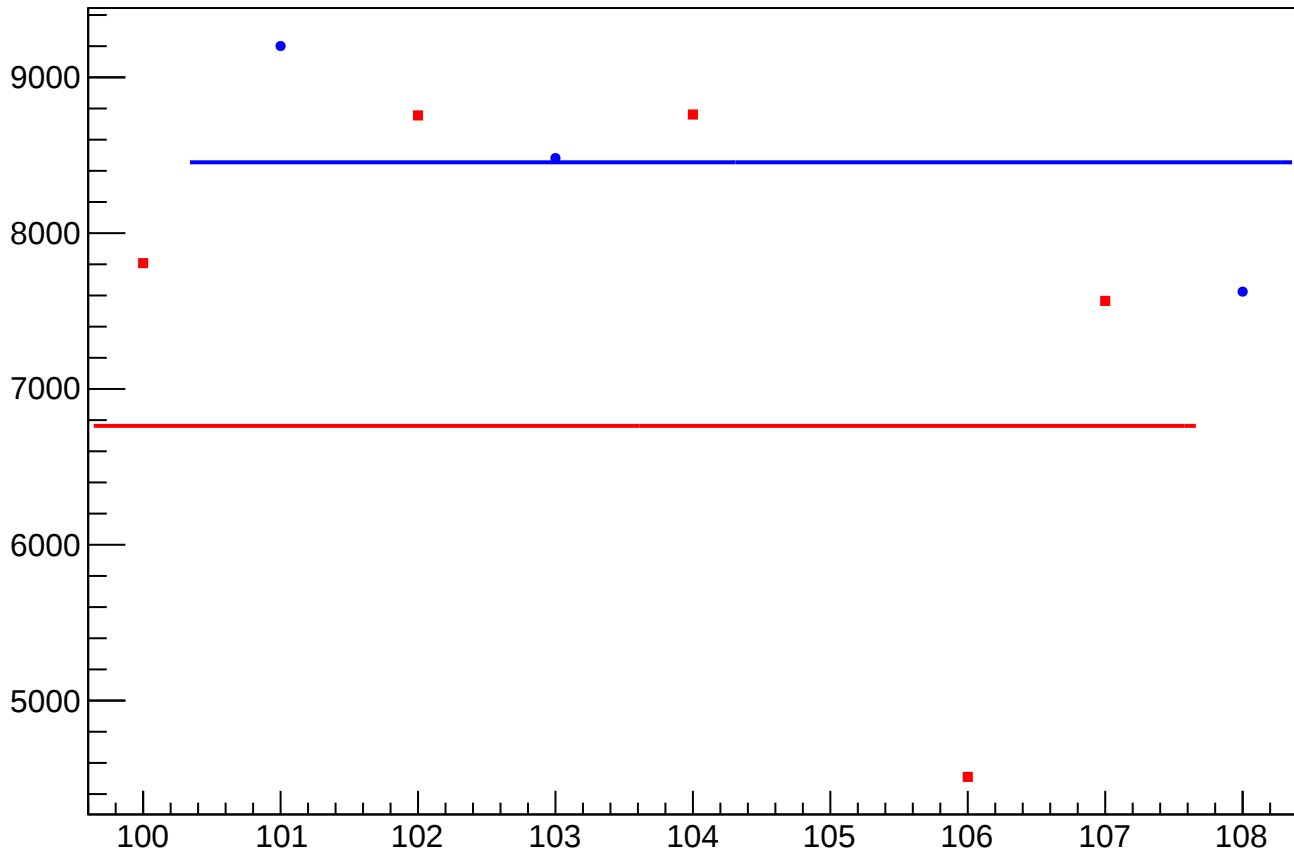
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.098+/-4.198  $\chi^2/\text{NDF}$ : 18.4/7

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

# diff\_bpm0l10X\_rms vs Slug



Right In: 8454.753 $\pm$ 4.854  $\chi^2$ /NDF: 16633.1/2

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

Right Out: 6763.220 $\pm$ 3.752  $\chi^2$ /NDF: 266963.6/4

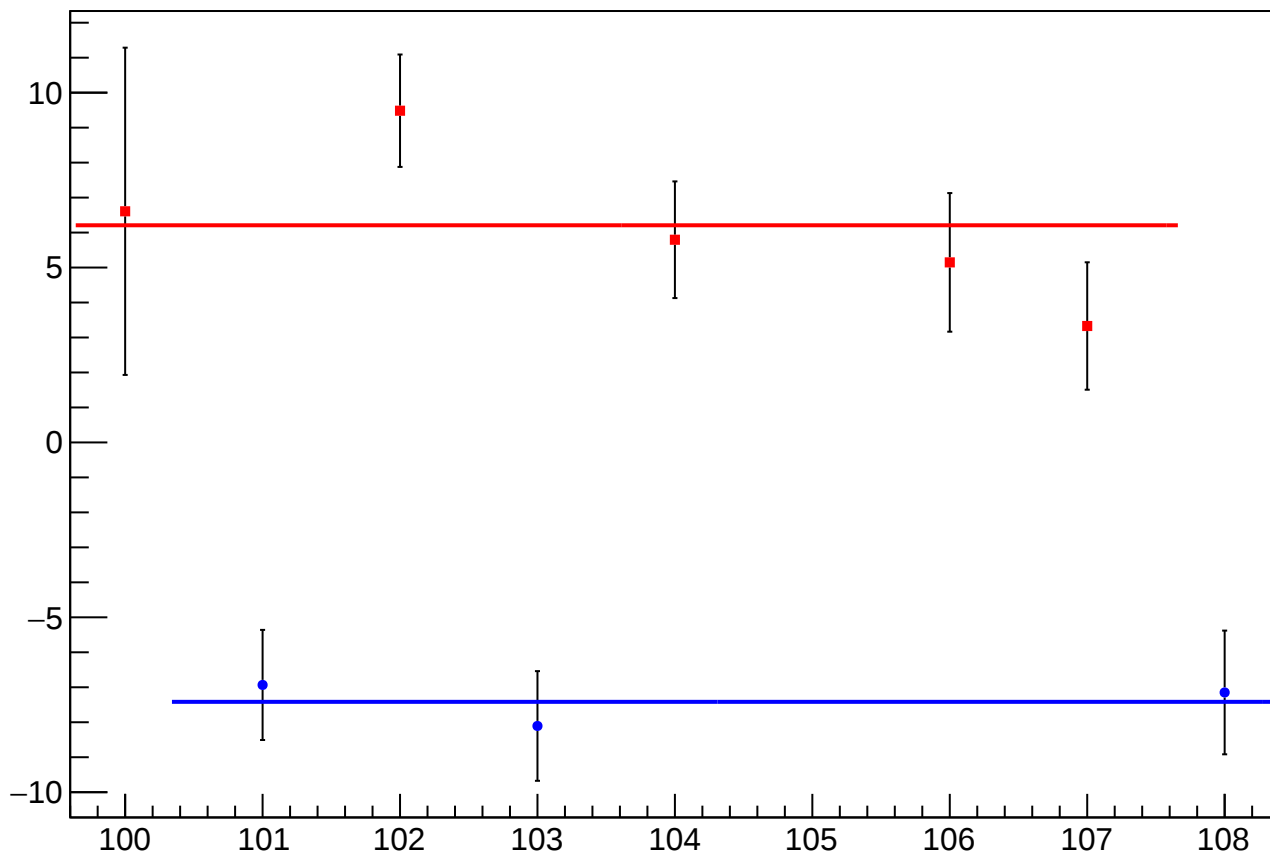
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 7395.842 $\pm$ 2.968  $\chi^2$ /NDF: 359627.5/7

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

# diff\_bpm0l10Y\_mean vs Slug



Right In:  $-7.417 \pm 0.941$   $\chi^2/\text{NDF}$ : 0.3/2

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

Right Out:  $6.208 \pm 0.861$   $\chi^2/\text{NDF}$ : 7.0/4

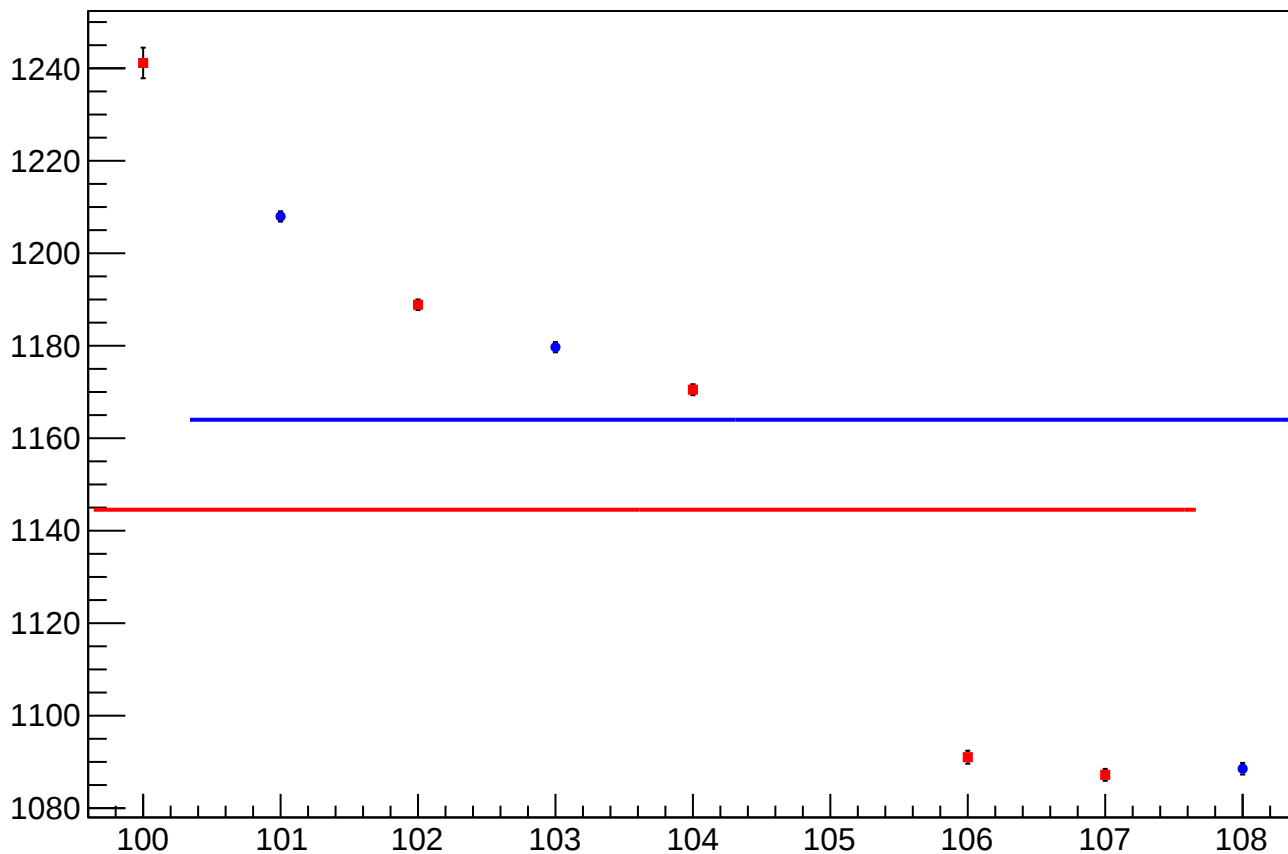
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.004 \pm 0.635$   $\chi^2/\text{NDF}$ : 121.5/7

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

# diff\_bpm0l10Y\_rms vs Slug



Right In: 1164.000 $\pm$ 0.665  $\chi^2$ /NDF: 5403.9/2

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

Right Out: 1144.540 $\pm$ 0.609  $\chi^2$ /NDF: 6299.9/4

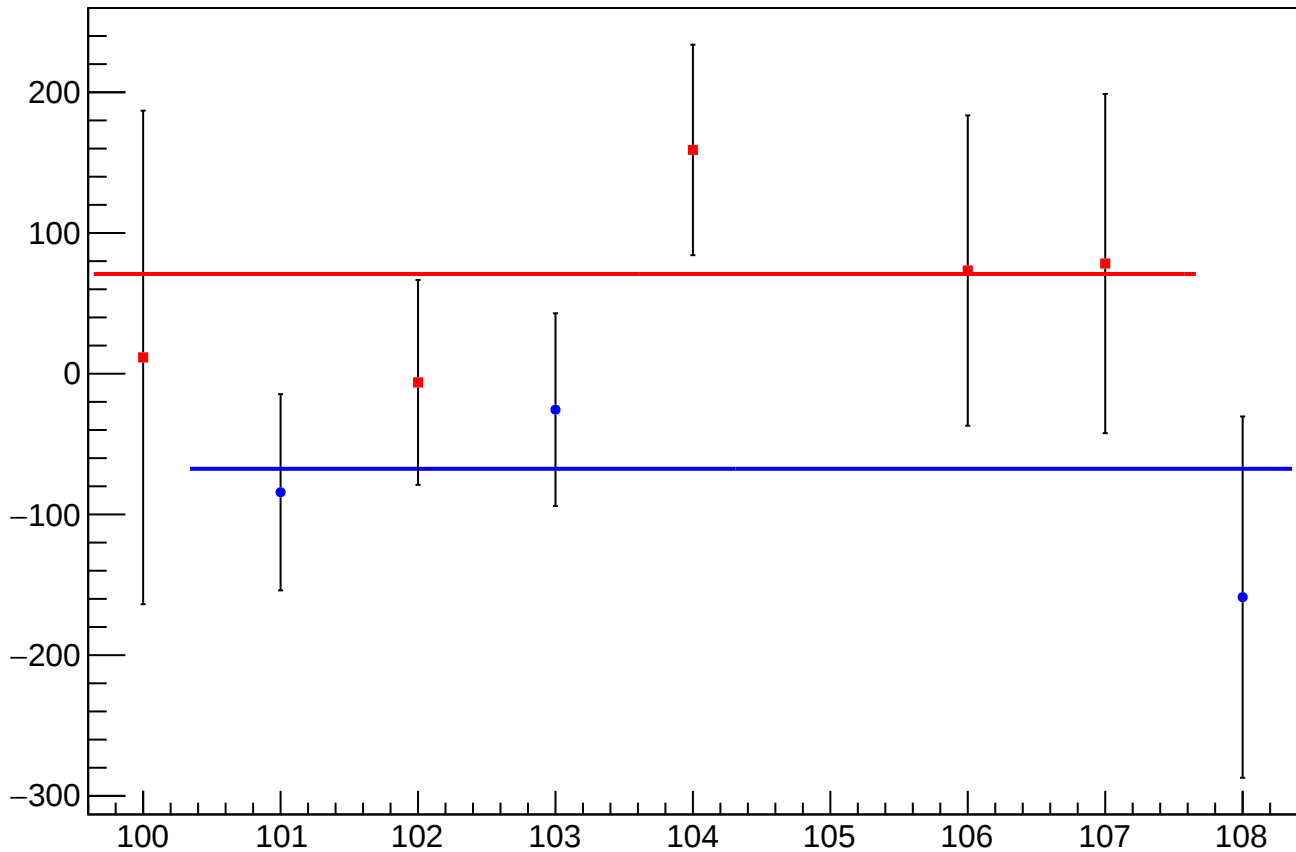
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1153.413 $\pm$ 0.449  $\chi^2$ /NDF: 12169.5/7

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

# diff\_bpm0r03X\_mean vs Slug



Right In:  $-67.570 \pm 45.668$   $\chi^2/\text{NDF}$ : 0.9/2

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

Right Out:  $70.875 \pm 42.601$   $\chi^2/\text{NDF}$ : 2.6/4

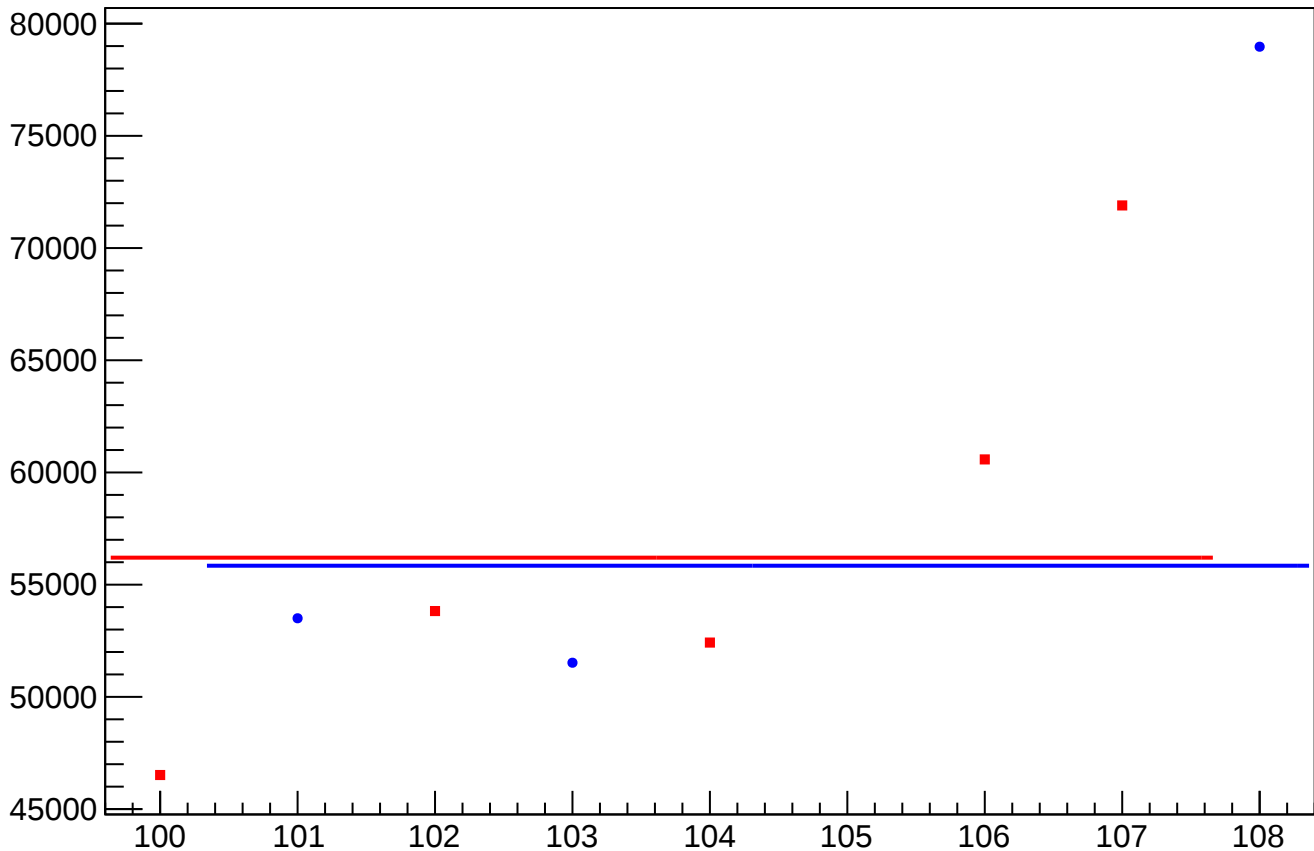
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $6.457 \pm 31.151$   $\chi^2/\text{NDF}$ : 8.5/7

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

# diff\_bpm0r03X\_rms vs Slug



Right In: 55844.606 $\pm$ 32.292  $\chi^2$ /NDF: 75121.1/2

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

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

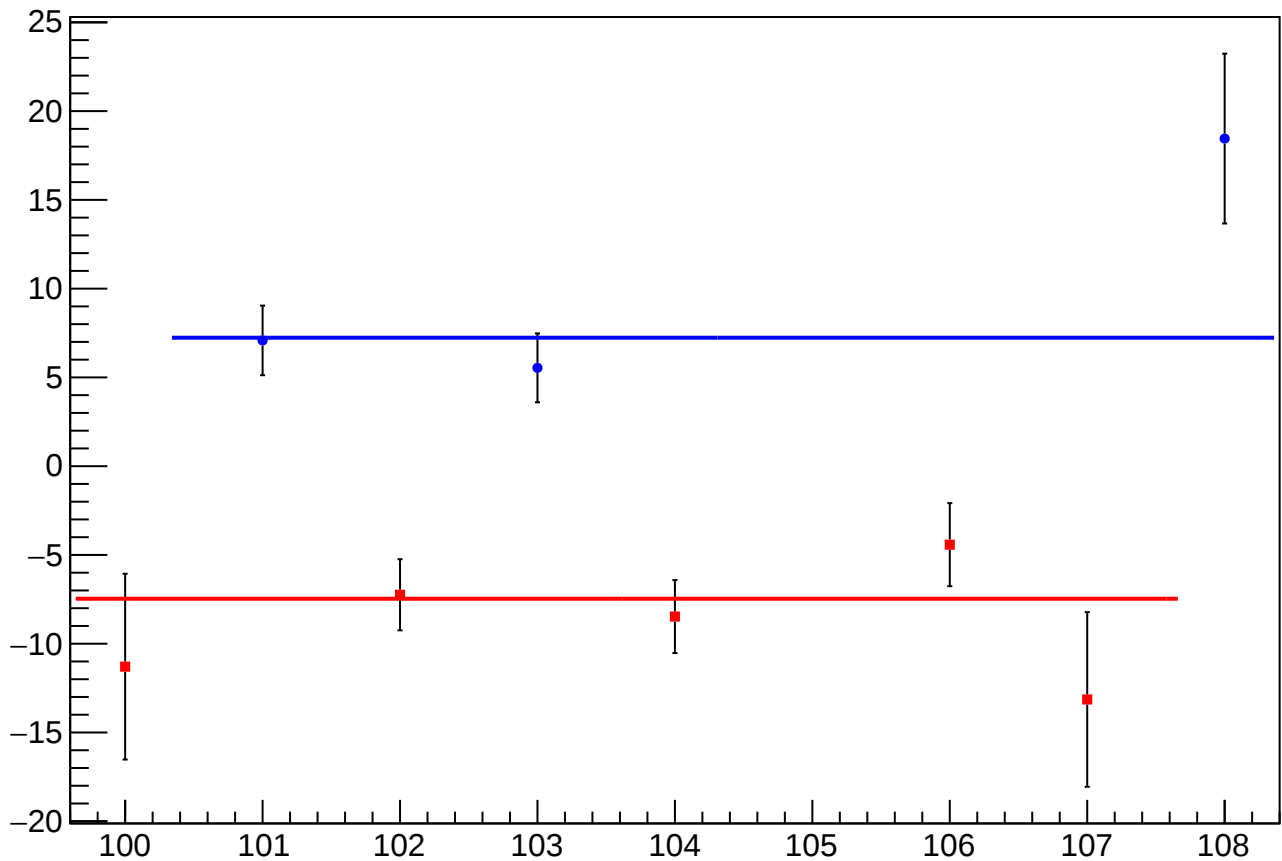
Right Out: 56203.795 $\pm$ 30.123  $\chi^2$ /NDF: 50417.1/4

All: 56036.666 $\pm$ 22.027  $\chi^2$ /NDF: 125604.4/7

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

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

diff\_bpm0r03Y\_mean vs Slug



Right In: 7.236 $\pm$ 1.325  $\chi^2$ /NDF: 6.3/2

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

Right Out: -7.466 $\pm$ 1.157  $\chi^2$ /NDF: 3.8/4

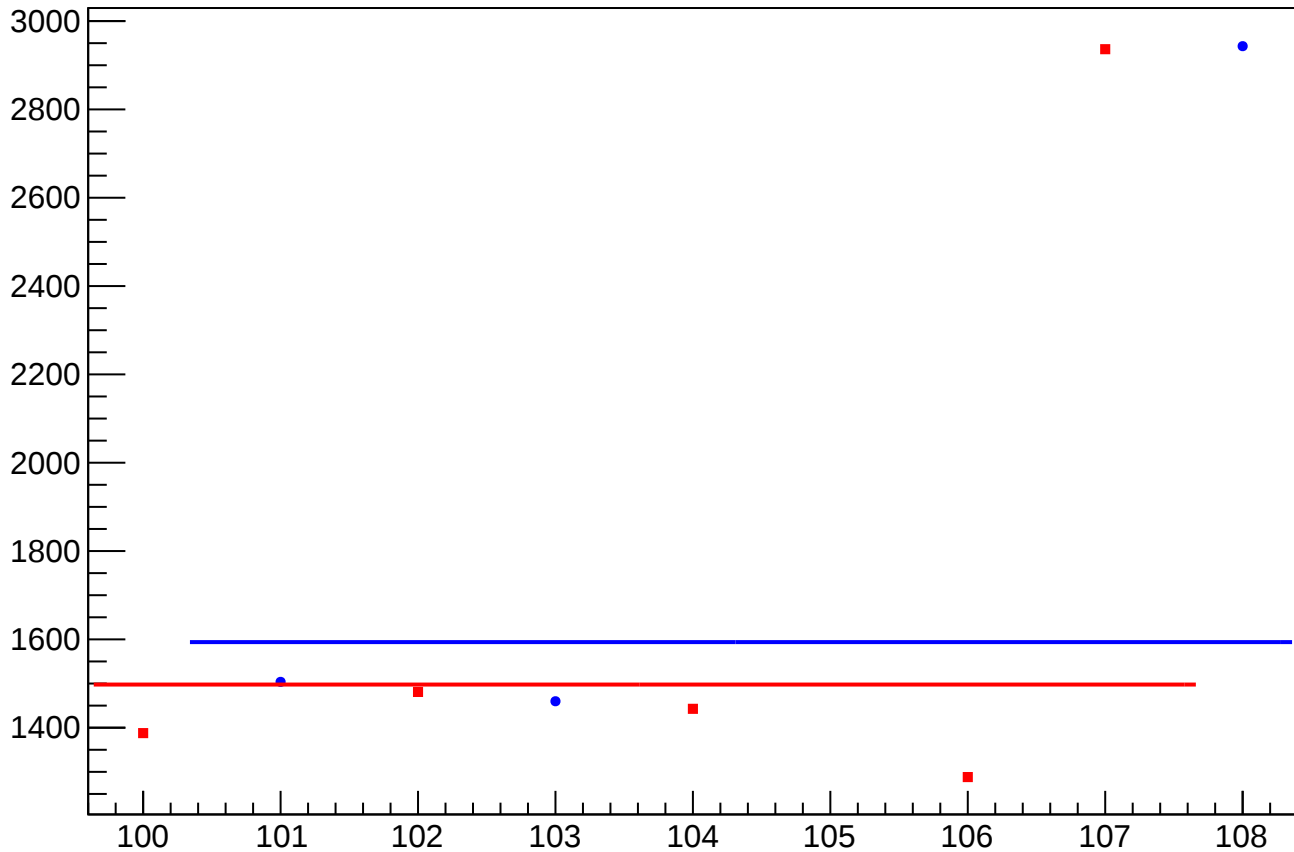
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -1.102 $\pm$ 0.872  $\chi^2$ /NDF: 79.9/7

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

# diff\_bpm0r03Y\_rms vs Slug



Right In: 1593.809 $\pm$ 0.937  $\chi^2$ /NDF: 172996.9/2

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

Right Out: 1497.697 $\pm$ 0.818  $\chi^2$ /NDF: 189529.9/4

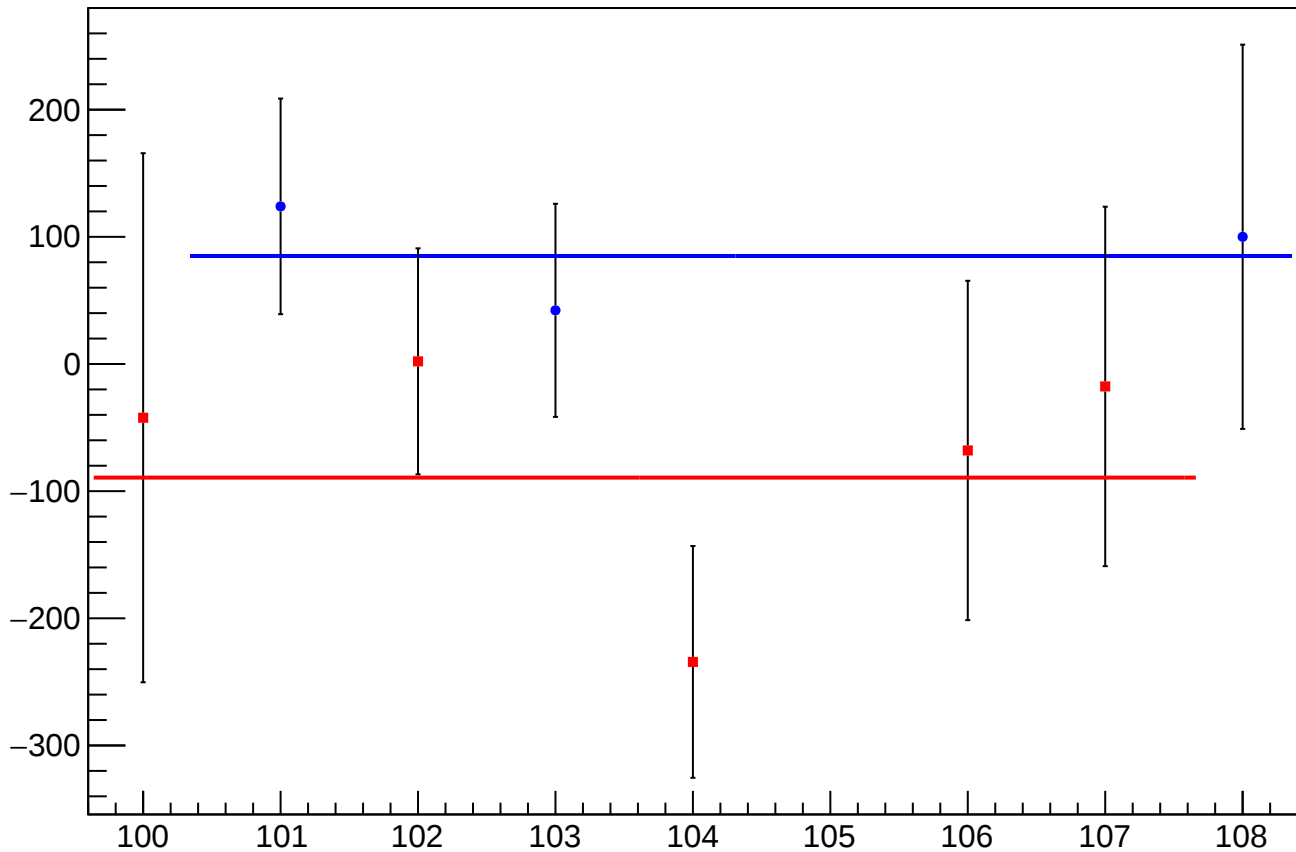
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1539.299 $\pm$ 0.616  $\chi^2$ /NDF: 368495.9/7

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

diff\_bpm0r05X\_mean vs Slug



Right In: 84.945 $\pm$ 55.442  $\chi^2$ /NDF: 0.5/2

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

Right Out: -89.348 $\pm$ 51.550  $\chi^2$ /NDF: 3.9/4

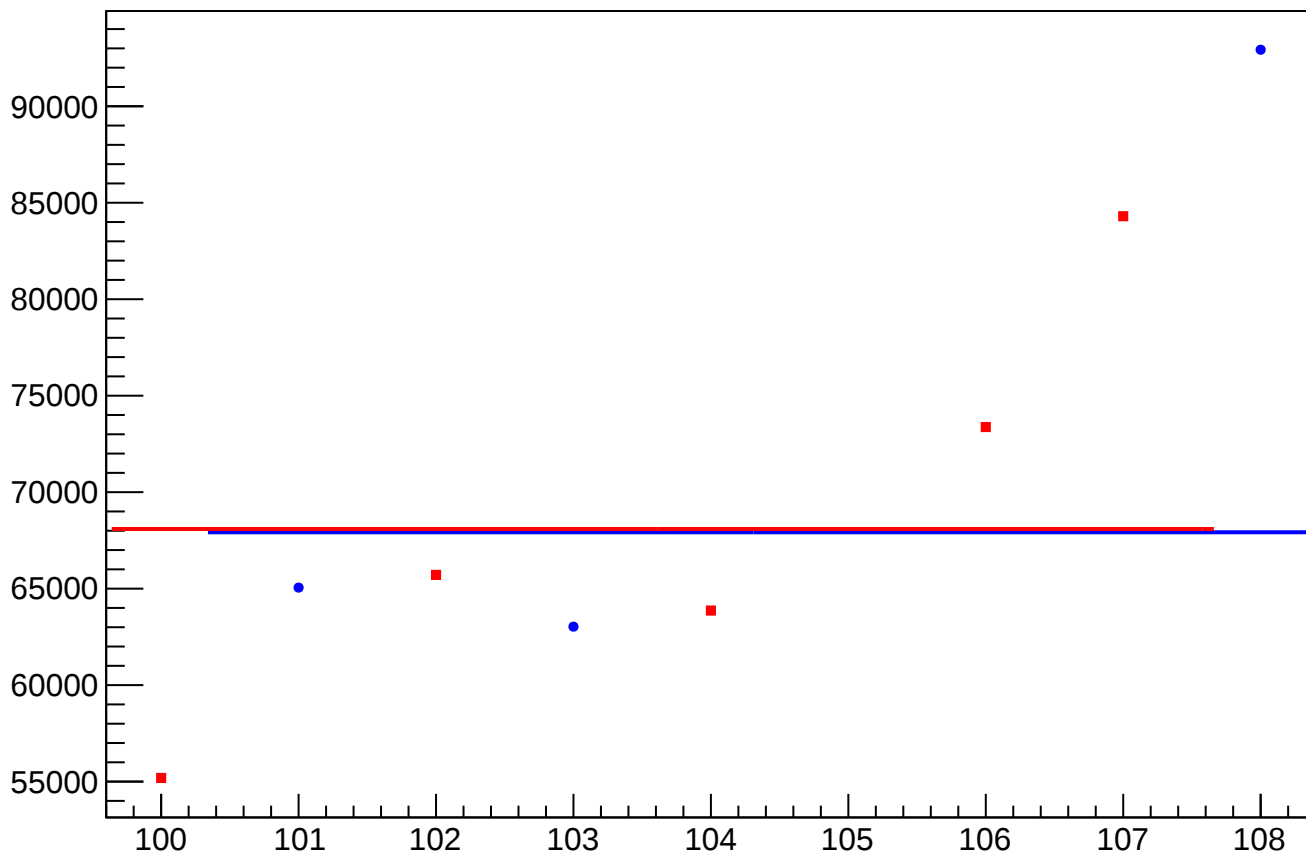
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -8.532 $\pm$ 37.752  $\chi^2$ /NDF: 9.7/7

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

# diff\_bpm0r05X\_rms vs Slug



Right In: 67921.230+/-39.203  $\chi^2/\text{NDF}$ : 63891.4/2

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

Right Out: 68091.326+/-36.451  $\chi^2/\text{NDF}$ : 42869.8/4

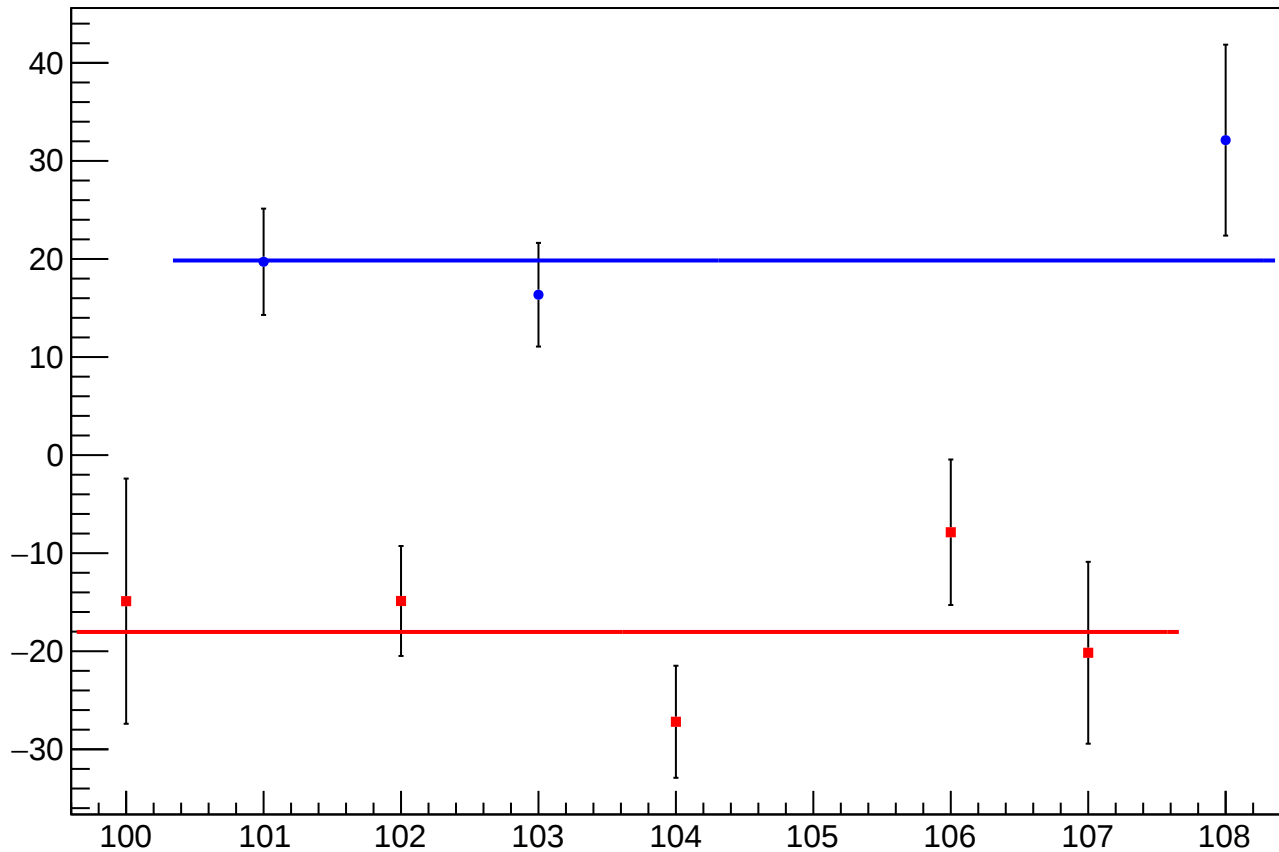
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 68012.457+/-26.695  $\chi^2/\text{NDF}$ : 106771.3/7

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

diff\_bpm0r05Y\_mean vs Slug



Right In: 19.847 $\pm$ 3.528  $\chi^2$ /NDF: 2.0/2

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

Right Out: -18.033 $\pm$ 3.184  $\chi^2$ /NDF: 4.9/4

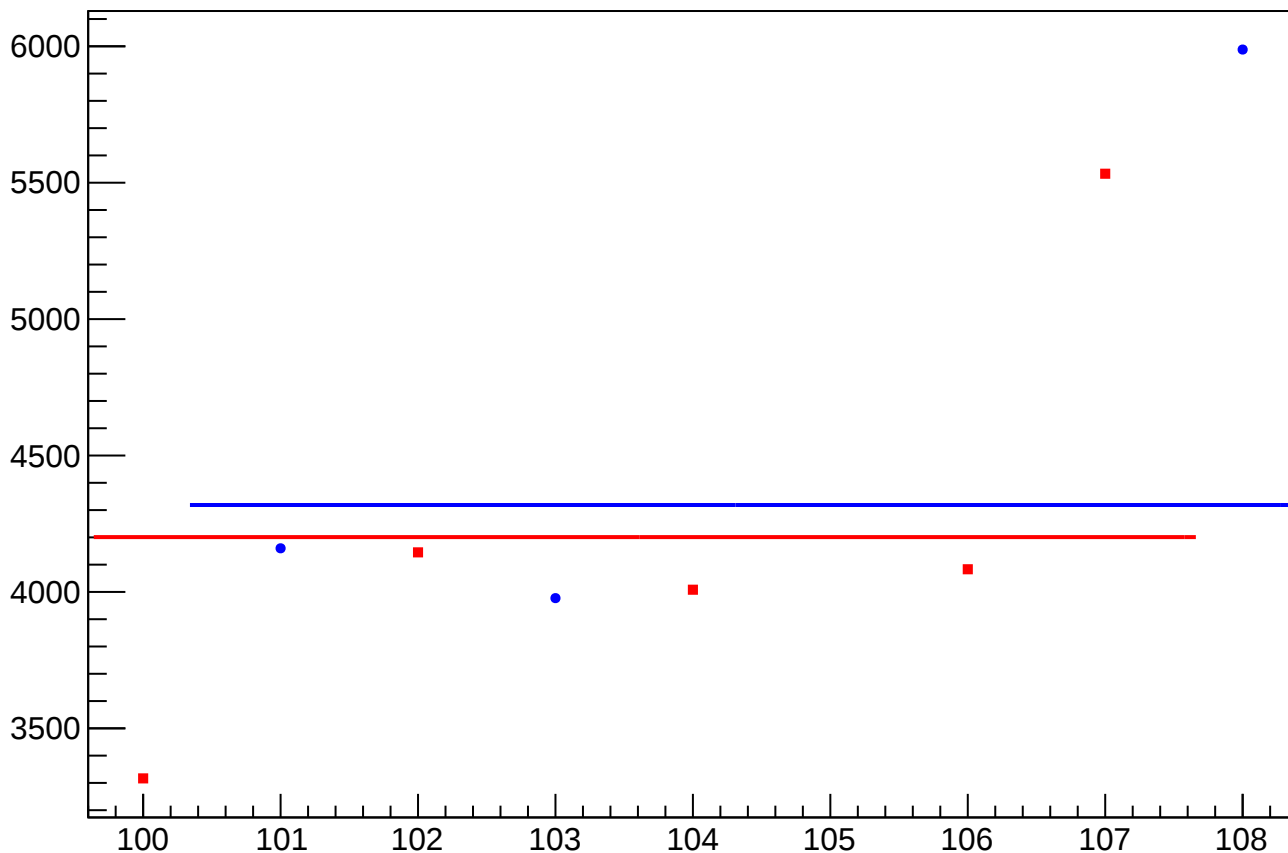
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -1.029 $\pm$ 2.364  $\chi^2$ /NDF: 70.4/7

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

# diff\_bpm0r05Y\_rms vs Slug



Right In: 4318.674 $\pm$ 2.495  $\chi^2$ /NDF: 68859.2/2

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

Right Out: 4200.997 $\pm$ 2.251  $\chi^2$ /NDF: 54252.4/4

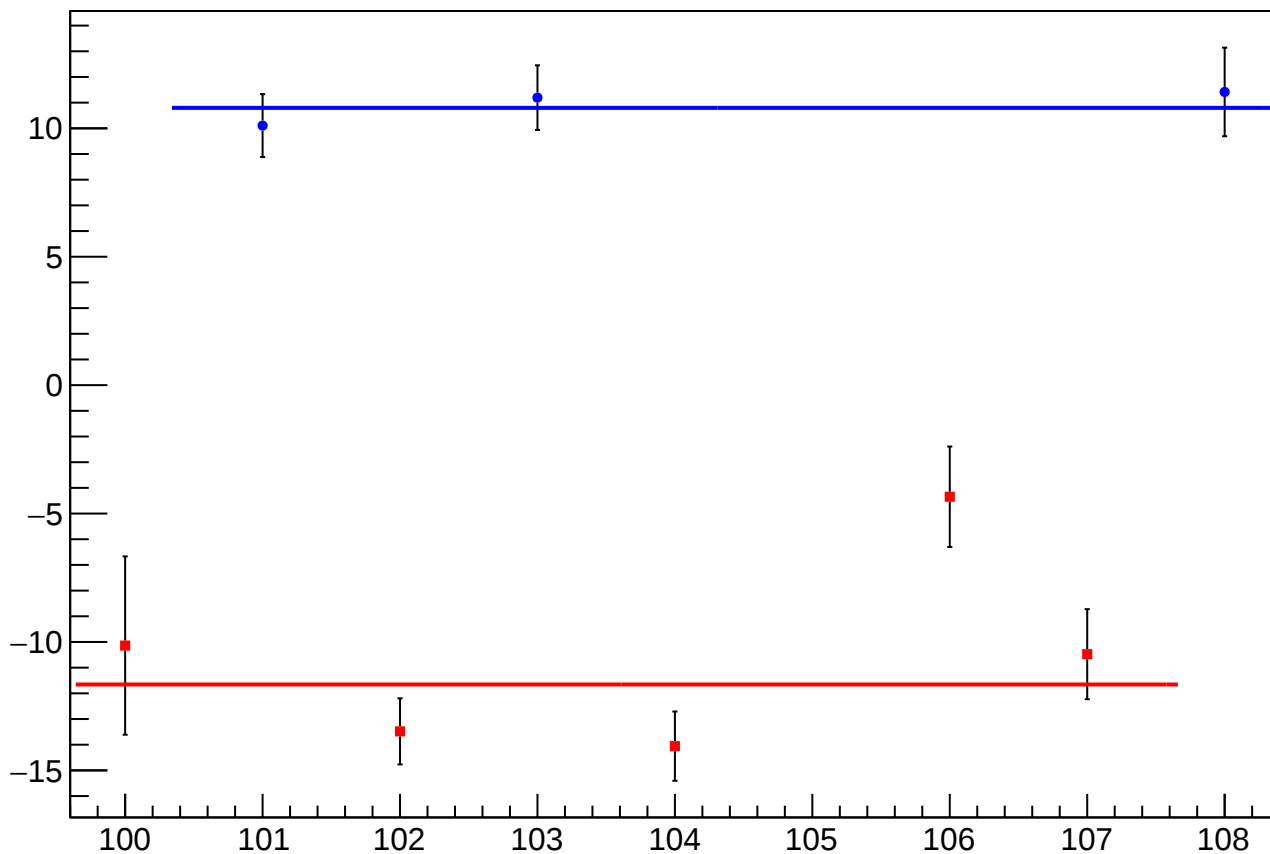
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 4253.822 $\pm$ 1.671  $\chi^2$ /NDF: 124338.0/7

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

diff\_bpm2i01X\_mean vs Slug



Right In: 10.797 $\pm$ 0.782  $\chi^2$ /NDF: 0.5/2

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

Right Out: -11.656 $\pm$ 0.741  $\chi^2$ /NDF: 19.8/4

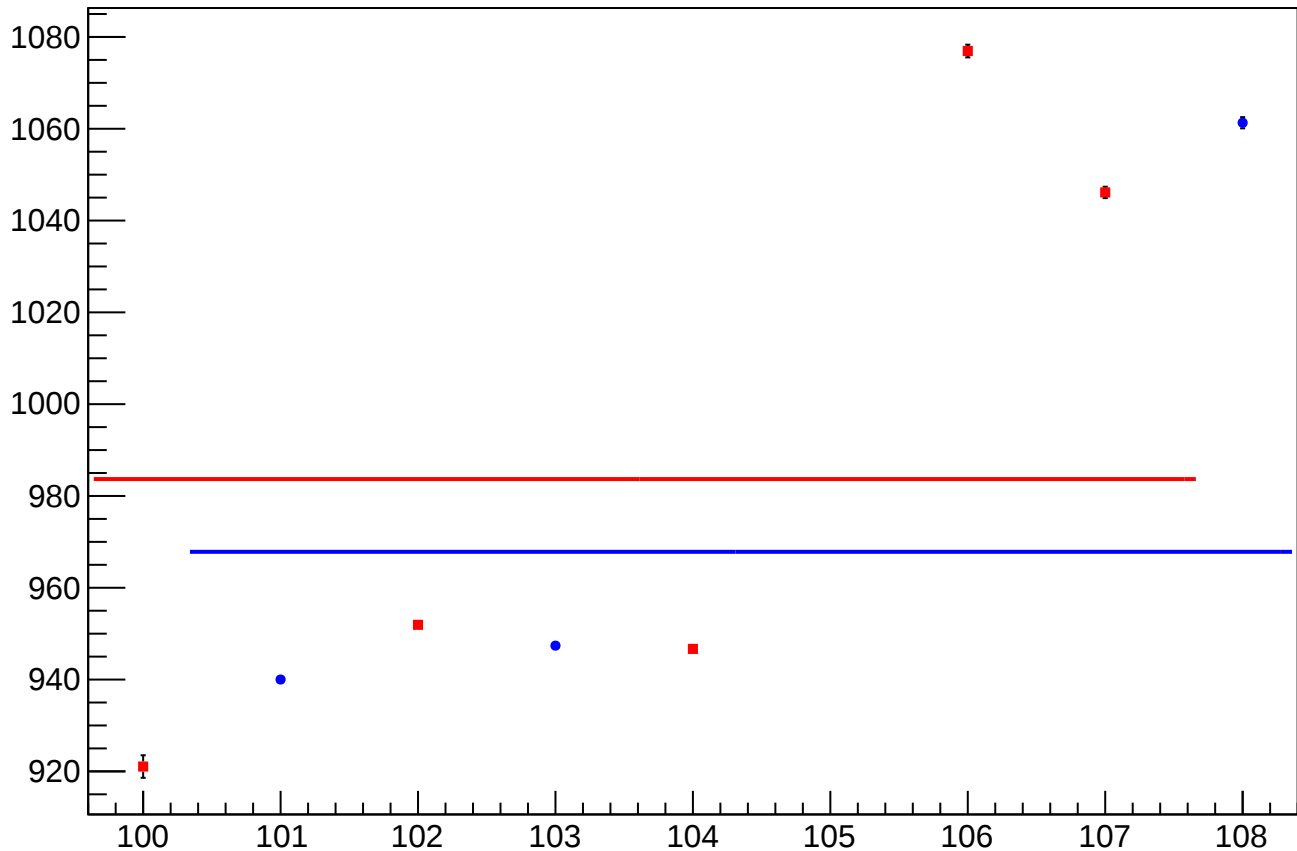
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -1.045 $\pm$ 0.538  $\chi^2$ /NDF: 454.7/7

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

# diff\_bpm2i01X\_rms vs Slug



Right In: 967.833+/-0.553  $\chi^2/\text{NDF}$ : 7436.9/2

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

Right Out: 983.682+/-0.524  $\chi^2/\text{NDF}$ : 10459.1/4

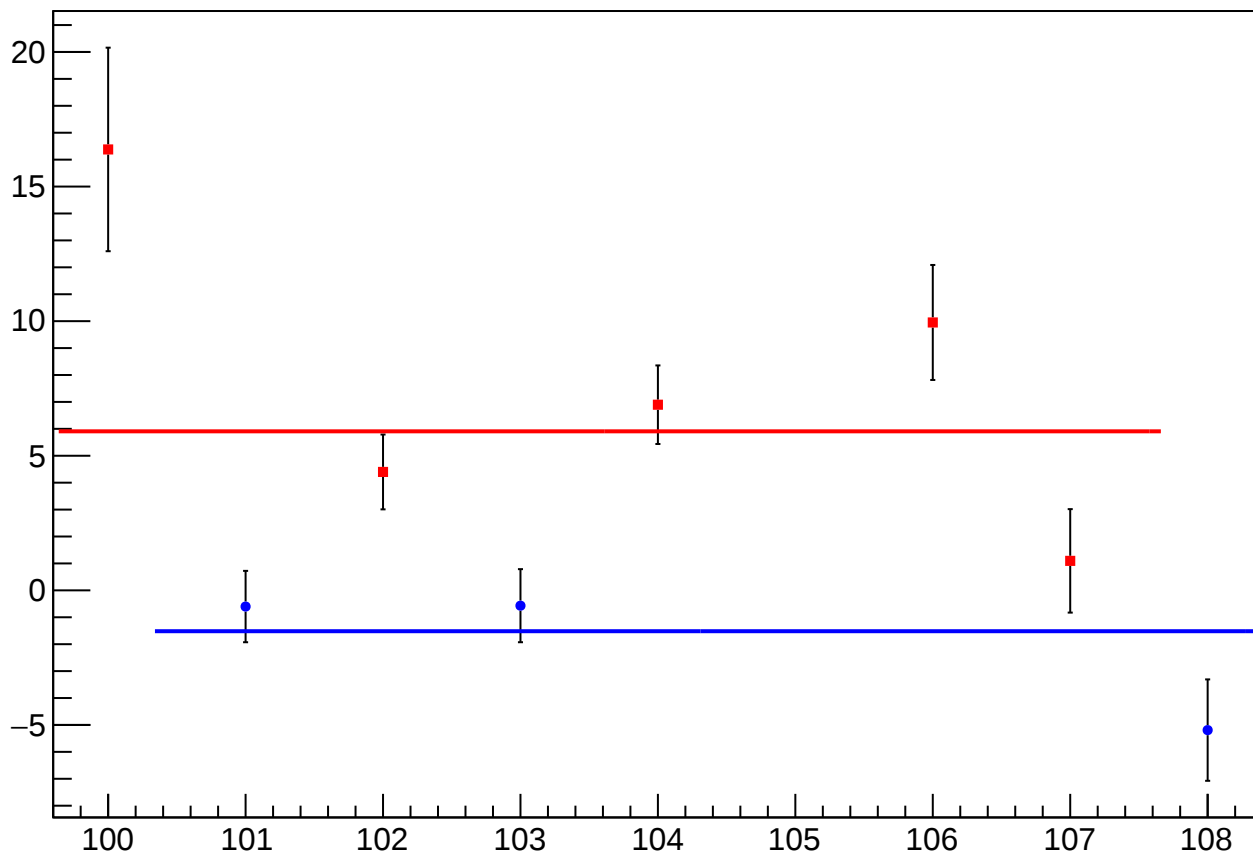
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 976.192+/-0.380  $\chi^2/\text{NDF}$ : 18328.9/7

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

# diff\_bpm2i01Y\_mean vs Slug



Right In:  $-1.518 \pm 0.847$   $\chi^2/\text{NDF}$ : 4.8/2

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

Right Out:  $5.907 \pm 0.804$   $\chi^2/\text{NDF}$ : 19.2/4

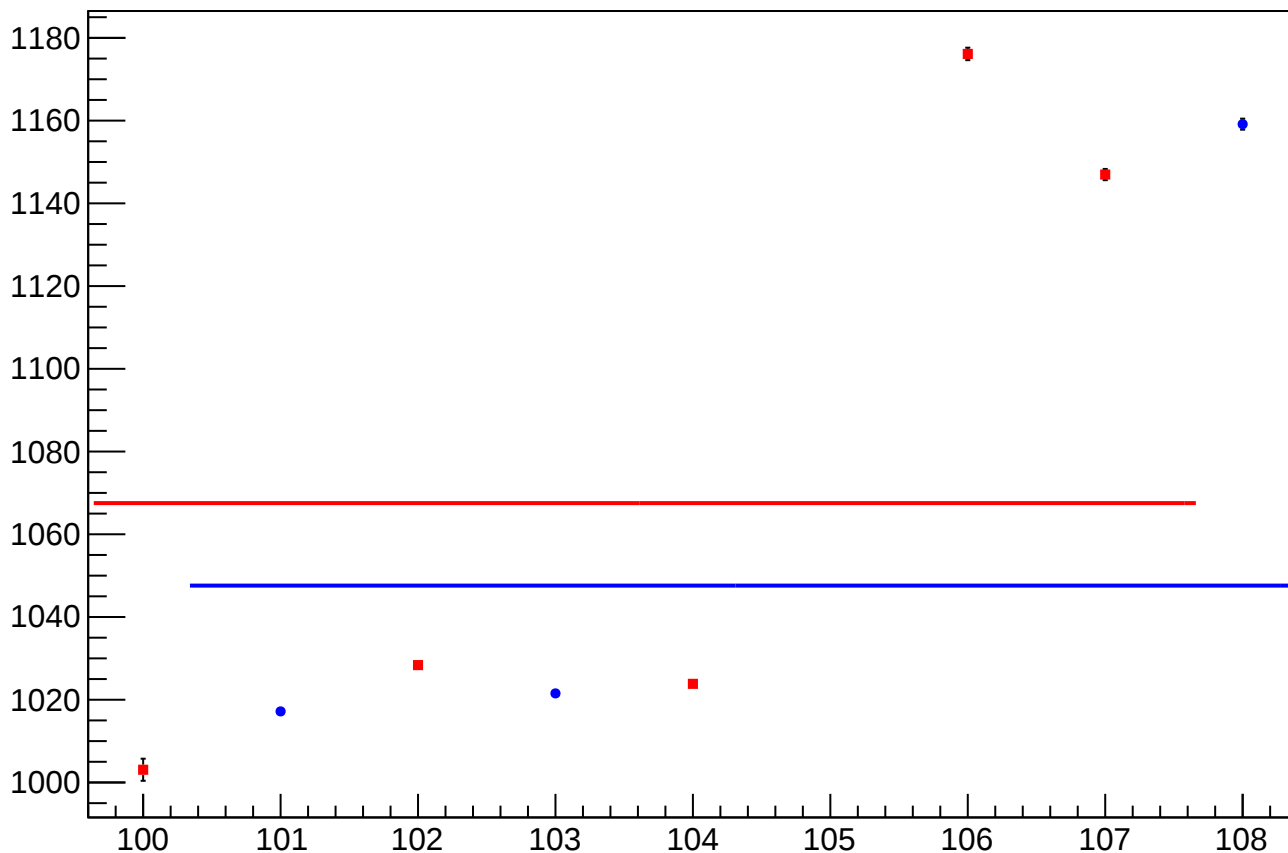
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $2.388 \pm 0.583$   $\chi^2/\text{NDF}$ : 64.4/7

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

# diff\_bpm2i01Y\_rms vs Slug



Right In: 1047.593 $\pm$ 0.599  $\chi^2$ /NDF: 8805.8/2

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

Right Out: 1067.536 $\pm$ 0.568  $\chi^2$ /NDF: 12546.5/4

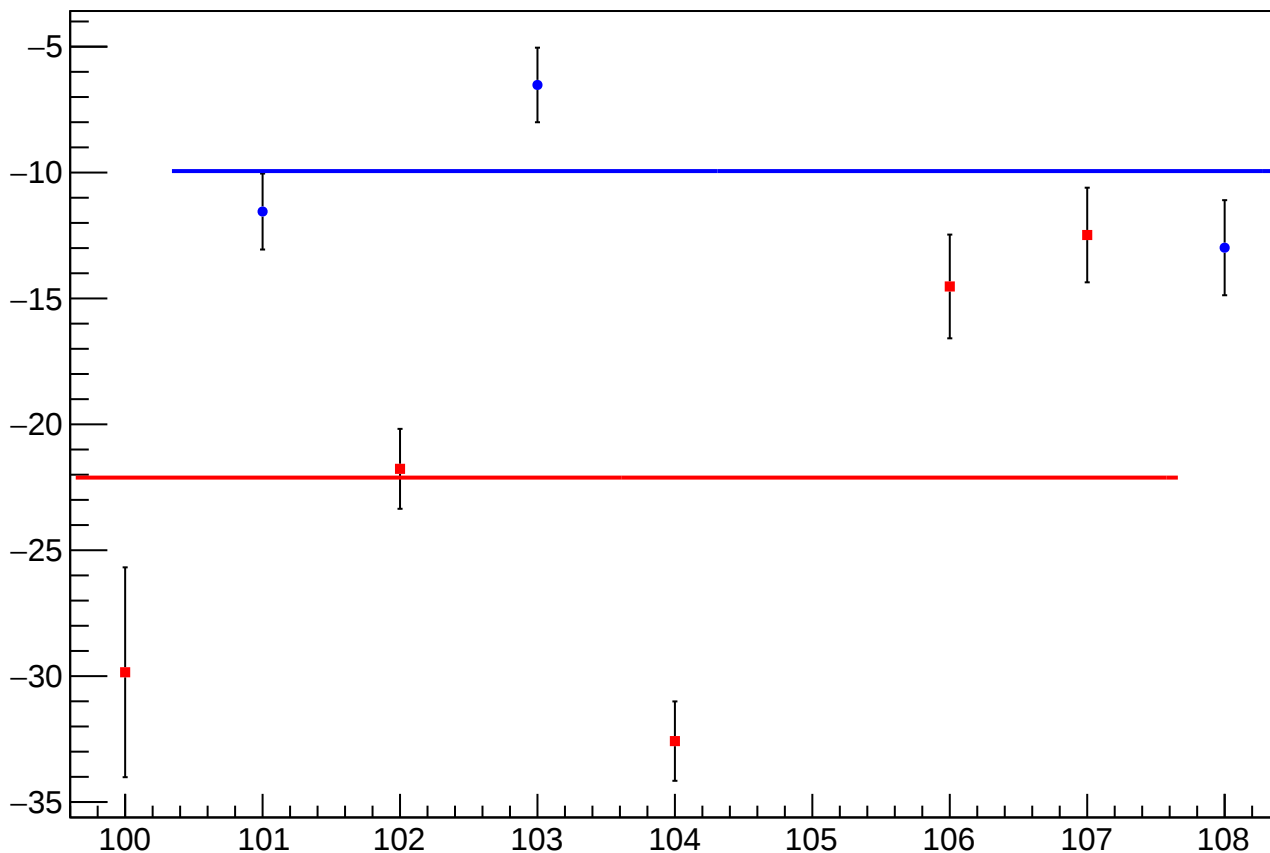
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1058.085 $\pm$ 0.412  $\chi^2$ /NDF: 21935.5/7

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

# diff\_bpm2i02X\_mean vs Slug



Right In:  $-9.941 \pm 0.922$   $\chi^2/\text{NDF}$ : 9.1/2

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

Right Out:  $-22.115 \pm 0.853$   $\chi^2/\text{NDF}$ : 87.4/4

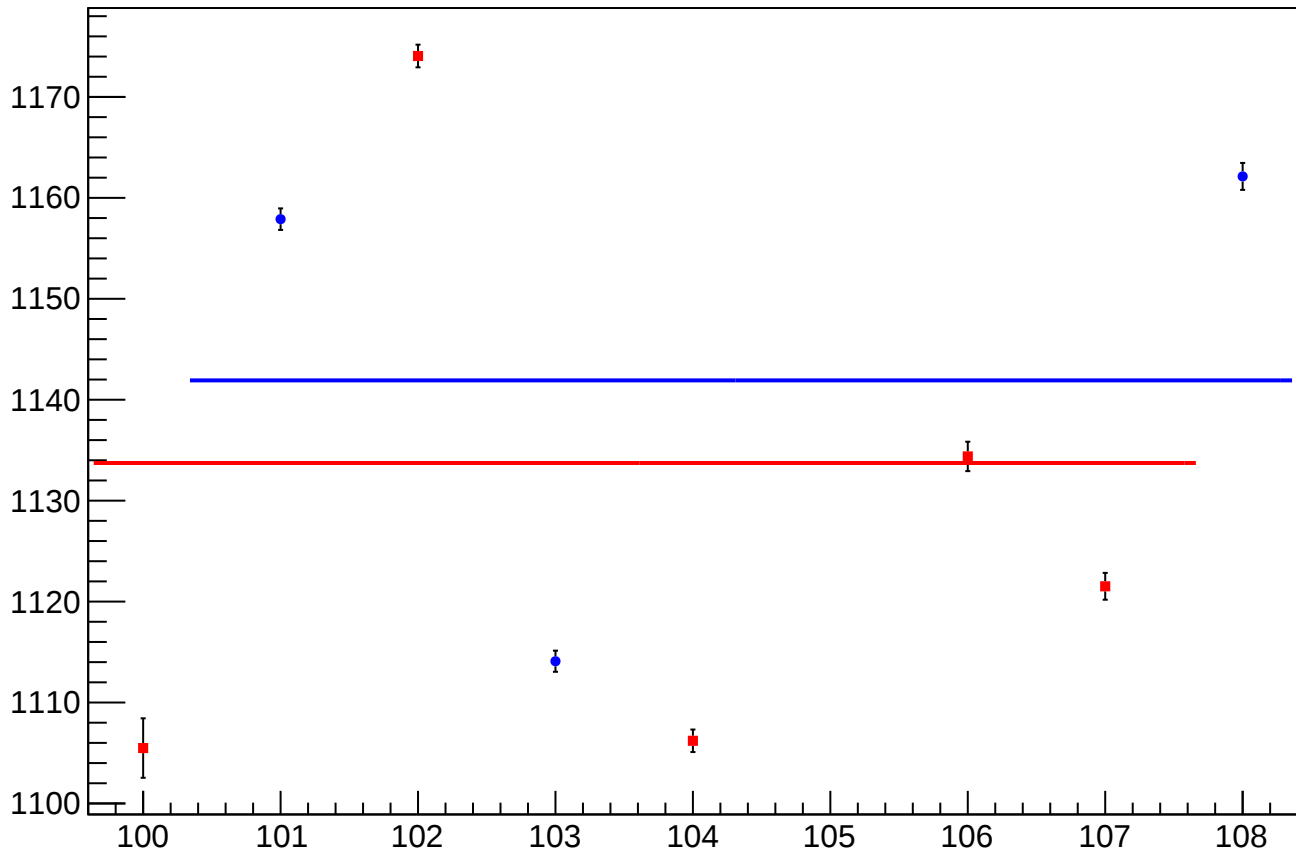
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-16.506 \pm 0.626$   $\chi^2/\text{NDF}$ : 190.4/7

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

# diff\_bpm2i02X\_rms vs Slug



Right In: 1141.916 $\pm$ 0.652  $\chi^2$ /NDF: 1159.2/2

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

Right Out: 1133.732 $\pm$ 0.603  $\chi^2$ /NDF: 2077.0/4

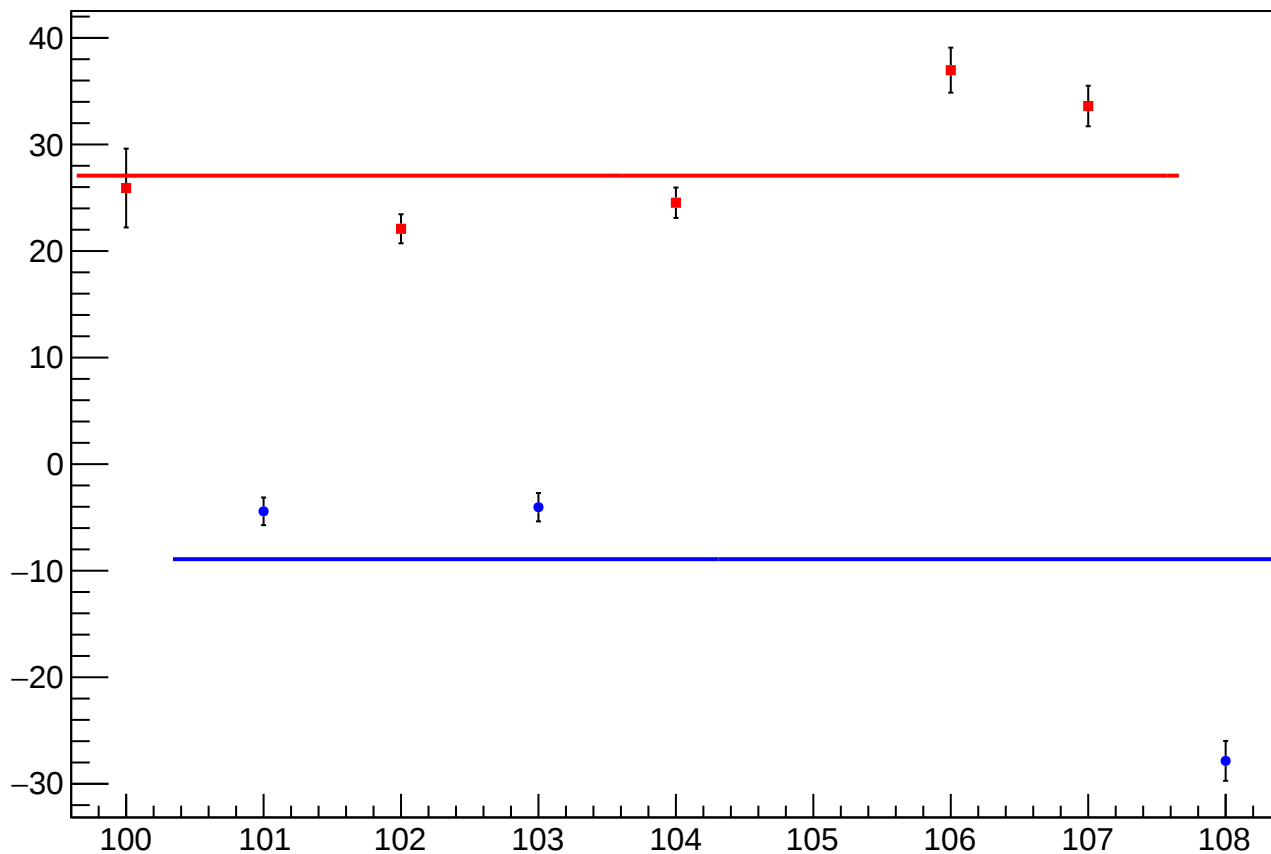
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1137.503 $\pm$ 0.443  $\chi^2$ /NDF: 3321.2/7

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

# diff\_bpm2i02Y\_mean vs Slug



Right In:  $-8.920 \pm 0.832$   $\chi^2/\text{NDF}$ : 128.0/2

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

Right Out:  $27.076 \pm 0.790$   $\chi^2/\text{NDF}$ : 50.4/4

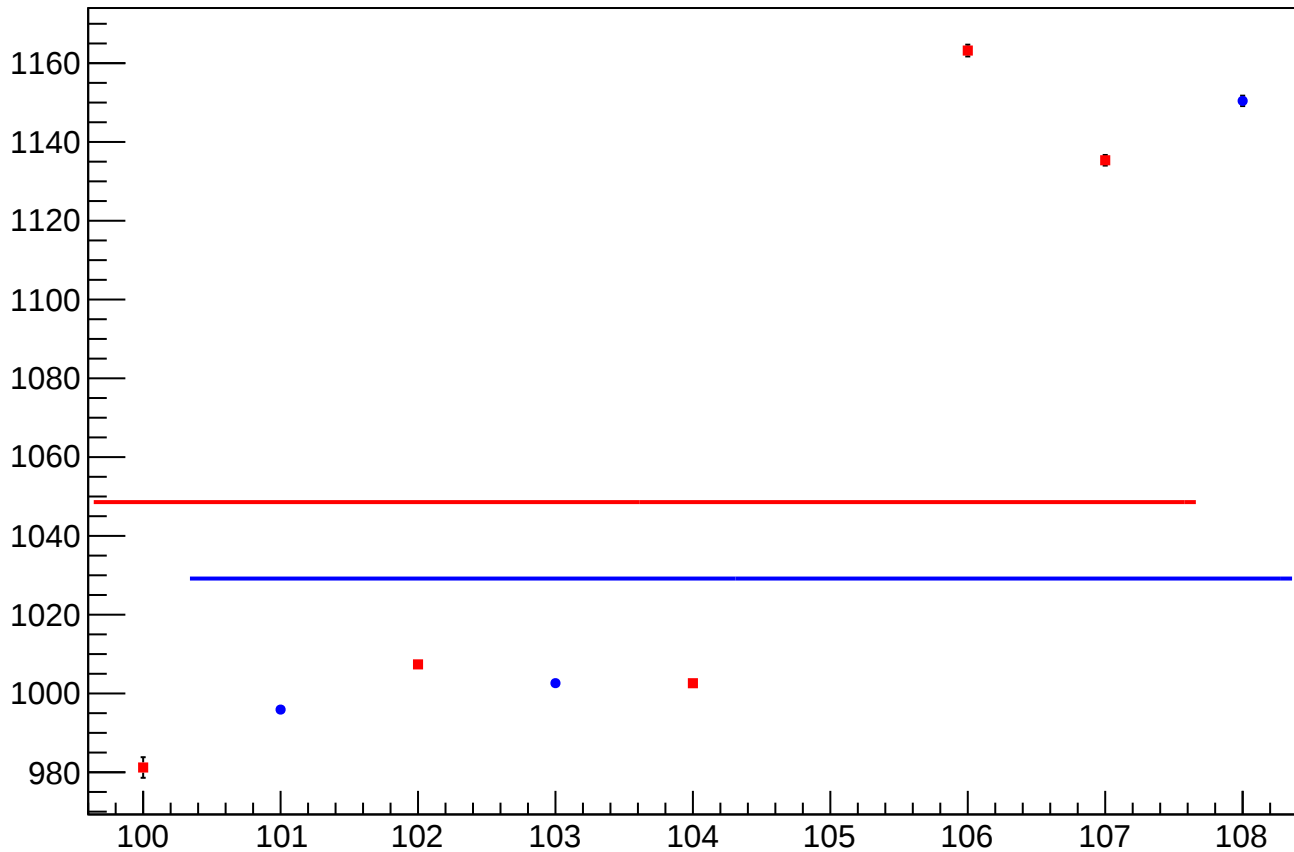
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $10.020 \pm 0.573$   $\chi^2/\text{NDF}$ : 1162.4/7

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

# diff\_bpm2i02Y\_rms vs Slug



Right In: 1029.174+/-0.589  $\chi^2/\text{NDF}$ : 10525.6/2

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

Right Out: 1048.578+/-0.559  $\chi^2/\text{NDF}$ : 14616.2/4

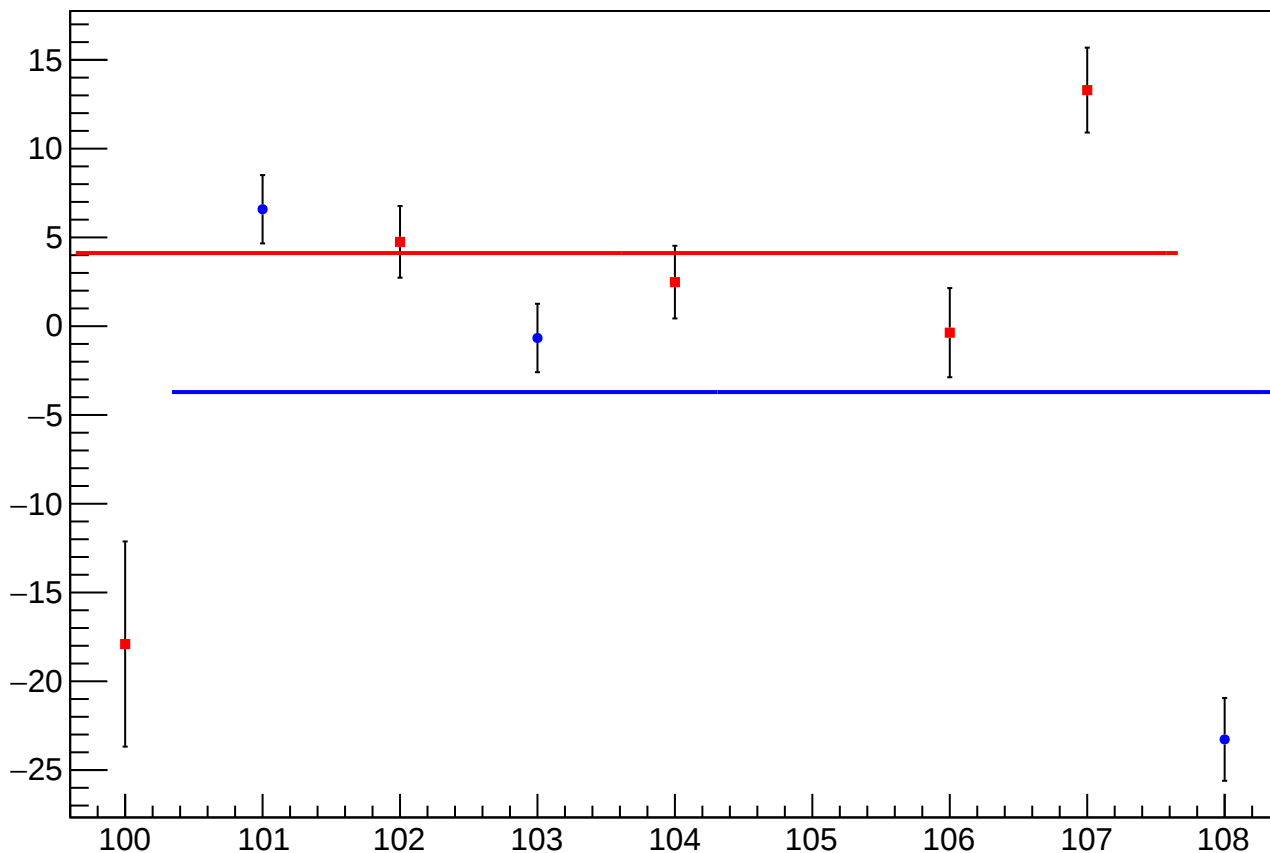
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1039.384+/-0.405  $\chi^2/\text{NDF}$ : 25713.7/7

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

# diff\_bpm0i02X\_mean vs Slug



Right In: -3.710 $\pm$ 1.176  $\chi^2$ /NDF: 101.6/2

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

Right Out: 4.120 $\pm$ 1.086  $\chi^2$ /NDF: 33.2/4

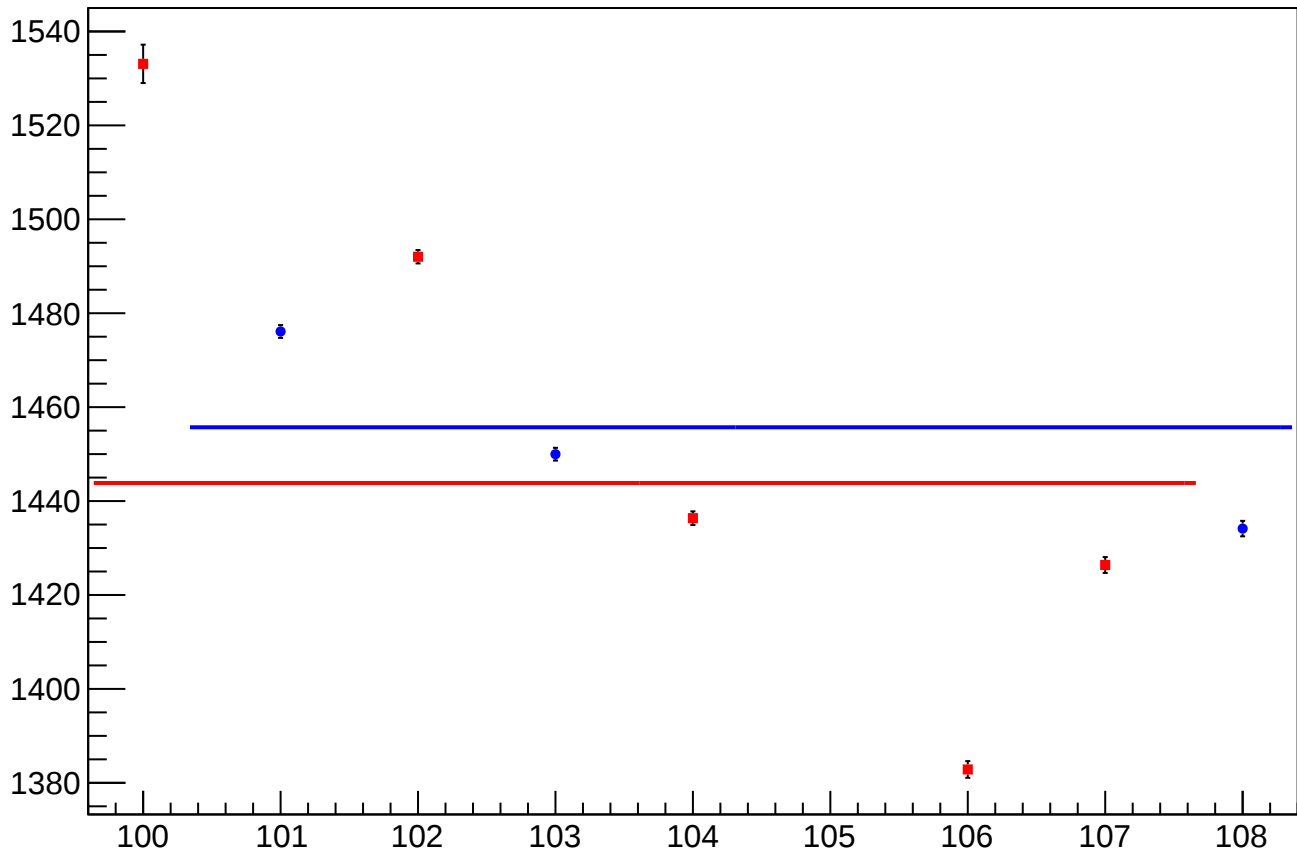
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.515 $\pm$ 0.798  $\chi^2$ /NDF: 158.8/7

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

# diff\_bpm0i02X\_rms vs Slug



Right In: 1455.711 $\pm$ 0.831  $\chi^2$ /NDF: 414.0/2

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

Right Out: 1443.850 $\pm$ 0.768  $\chi^2$ /NDF: 2932.0/4

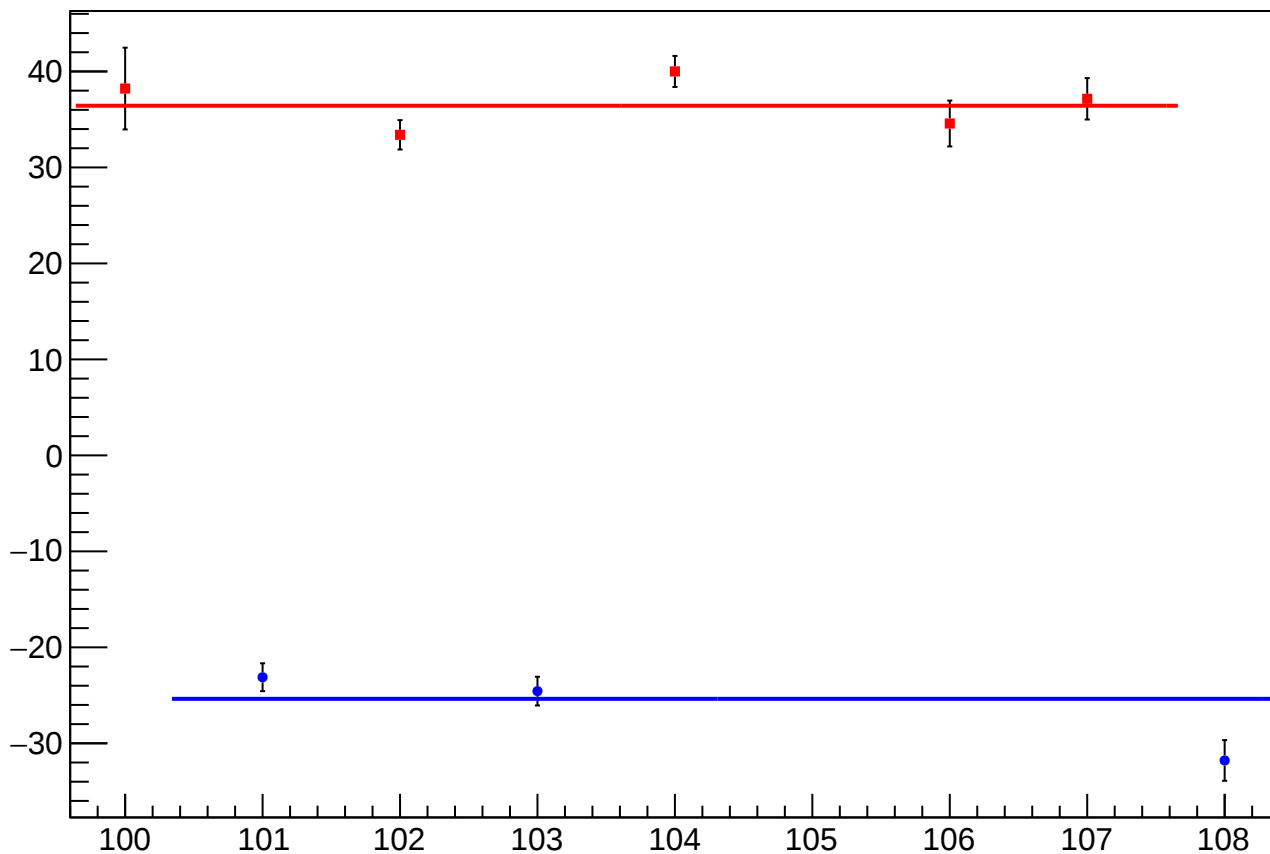
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1449.311 $\pm$ 0.564  $\chi^2$ /NDF: 3455.9/7

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

diff\_bpm0i02Y\_mean vs Slug



Right In:  $-25.365 \pm 0.934$   $\chi^2/\text{NDF}$ : 11.9/2

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

Right Out:  $36.430 \pm 0.893$   $\chi^2/\text{NDF}$ : 9.7/4

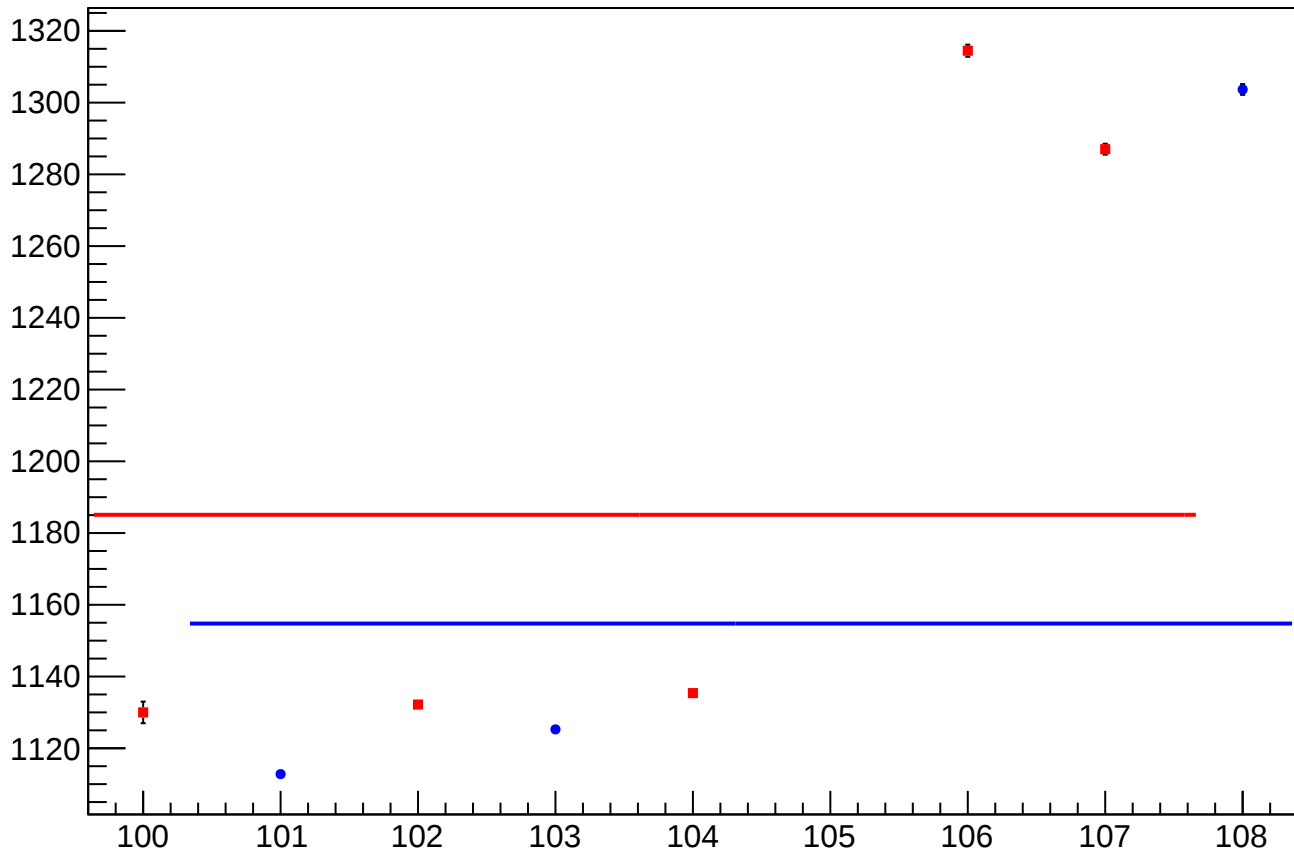
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $6.938 \pm 0.645$   $\chi^2/\text{NDF}$ : 2308.2/7

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

# diff\_bpm0i02Y\_rms vs Slug



Right In: 1154.766 $\pm$ 0.661  $\chi^2$ /NDF: 12328.0/2

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

Right Out: 1185.086 $\pm$ 0.631  $\chi^2$ /NDF: 14955.5/4

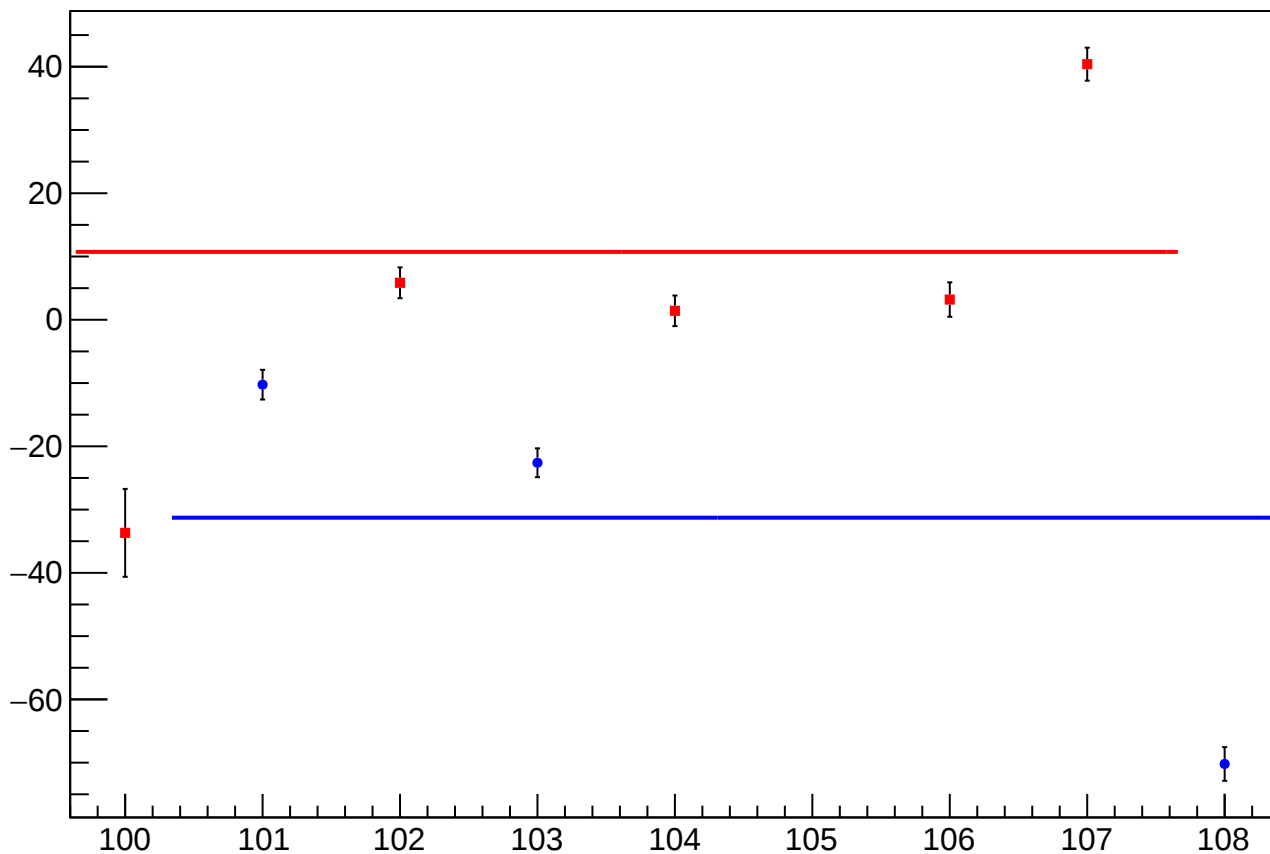
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1170.616 $\pm$ 0.456  $\chi^2$ /NDF: 28384.5/7

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

# diff\_bpm0i02aX\_mean vs Slug



Right In: -31.281+/-1.393  $\chi^2/\text{NDF}$ : 308.3/2

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

Right Out: 10.734+/-1.247  $\chi^2/\text{NDF}$ : 196.8/4

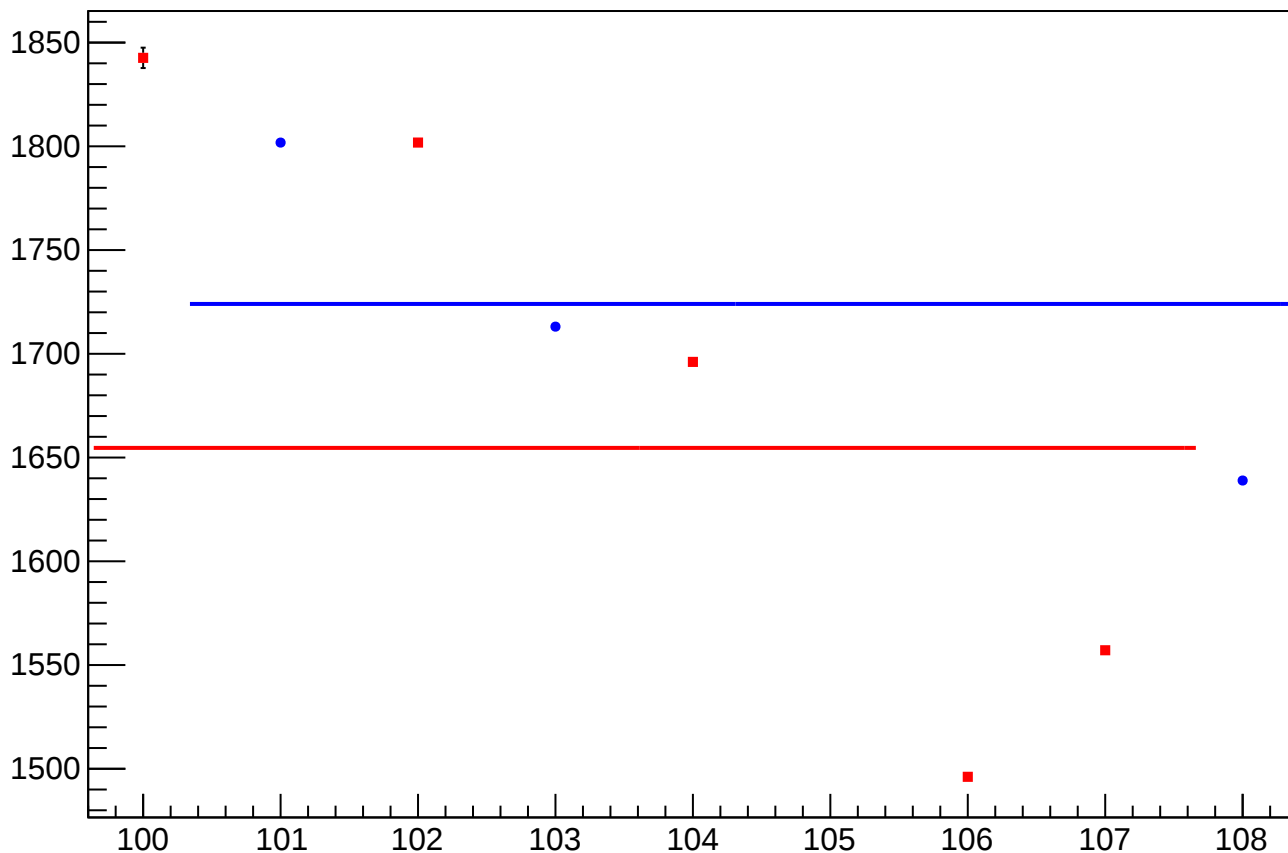
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -7.960+/-0.929  $\chi^2/\text{NDF}$ : 1009.8/7

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

# diff\_bpm0i02aX\_rms vs Slug



Right In: 1724.029+/-0.985  $\chi^2/\text{NDF}$ : 4282.3/2

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

Right Out: 1654.651+/-0.882  $\chi^2/\text{NDF}$ : 18949.8/4

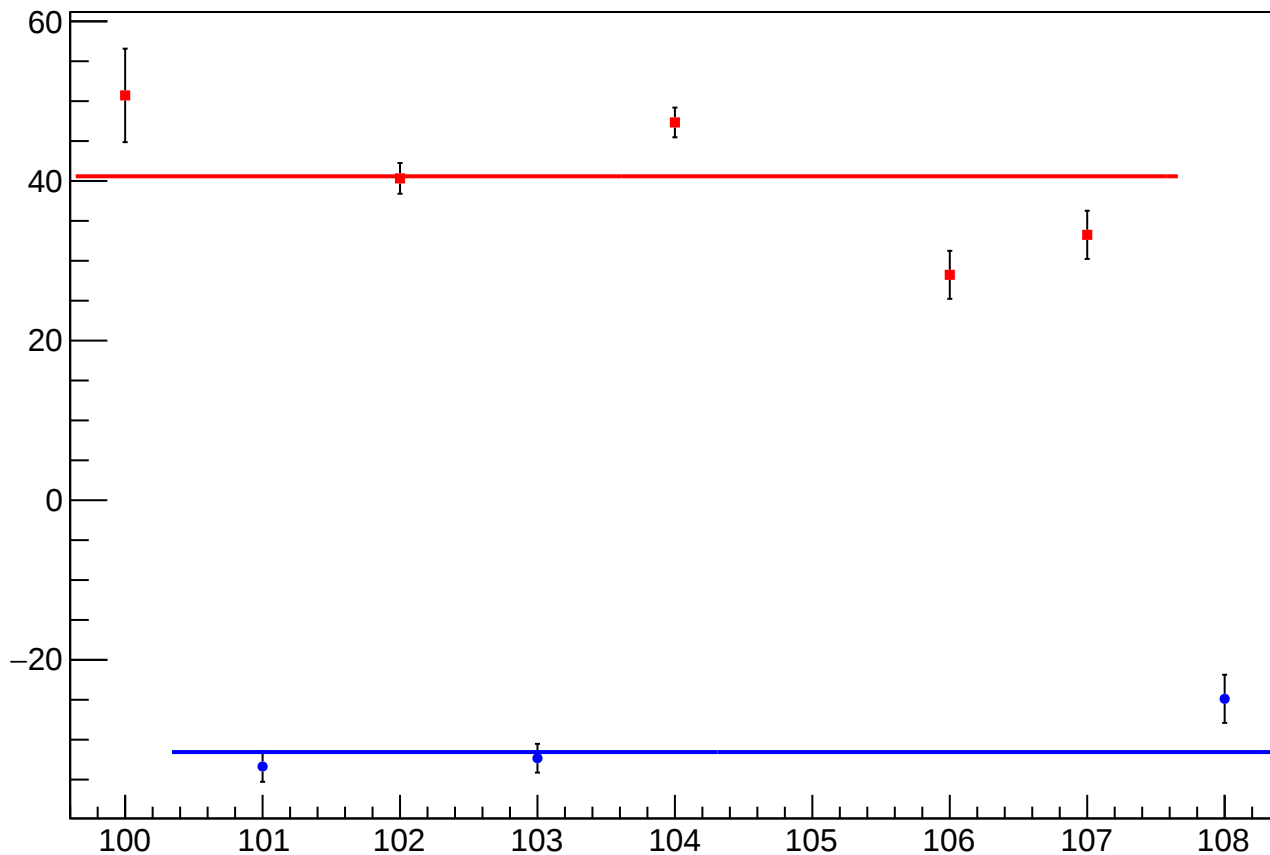
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1685.520+/-0.657  $\chi^2/\text{NDF}$ : 25984.7/7

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

# diff\_bpm0i02aY\_mean vs Slug



Right In: -31.552 $\pm$ 1.203  $\chi^2$ /NDF: 6.0/2

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

Right Out: 40.588 $\pm$ 1.113  $\chi^2$ /NDF: 38.9/4

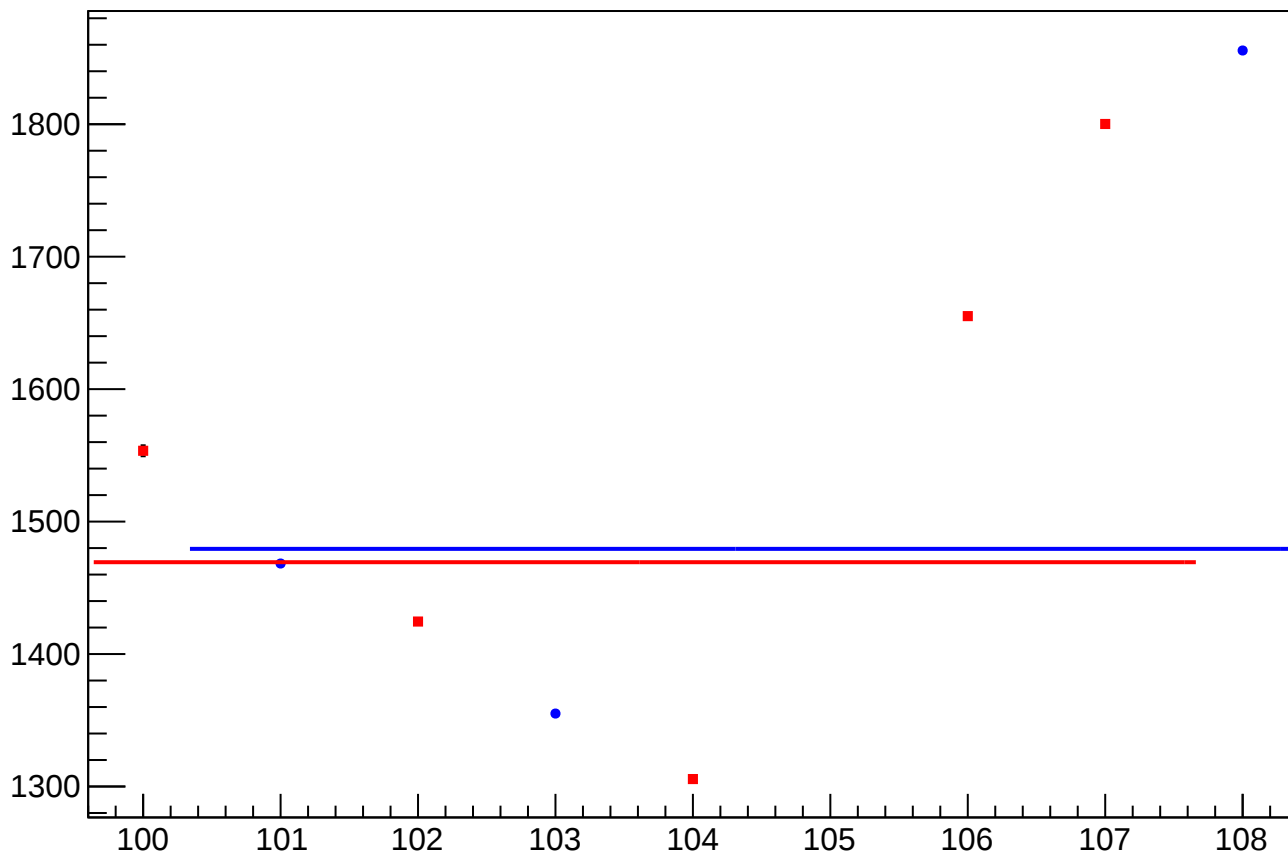
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 7.331 $\pm$ 0.817  $\chi^2$ /NDF: 1983.2/7

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

# diff\_bpm0i02aY\_rms vs Slug



Right In: 1479.408 $\pm$ 0.851  $\chi^2$ /NDF: 40689.5/2

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

Right Out: 1469.339 $\pm$ 0.787  $\chi^2$ /NDF: 48647.5/4

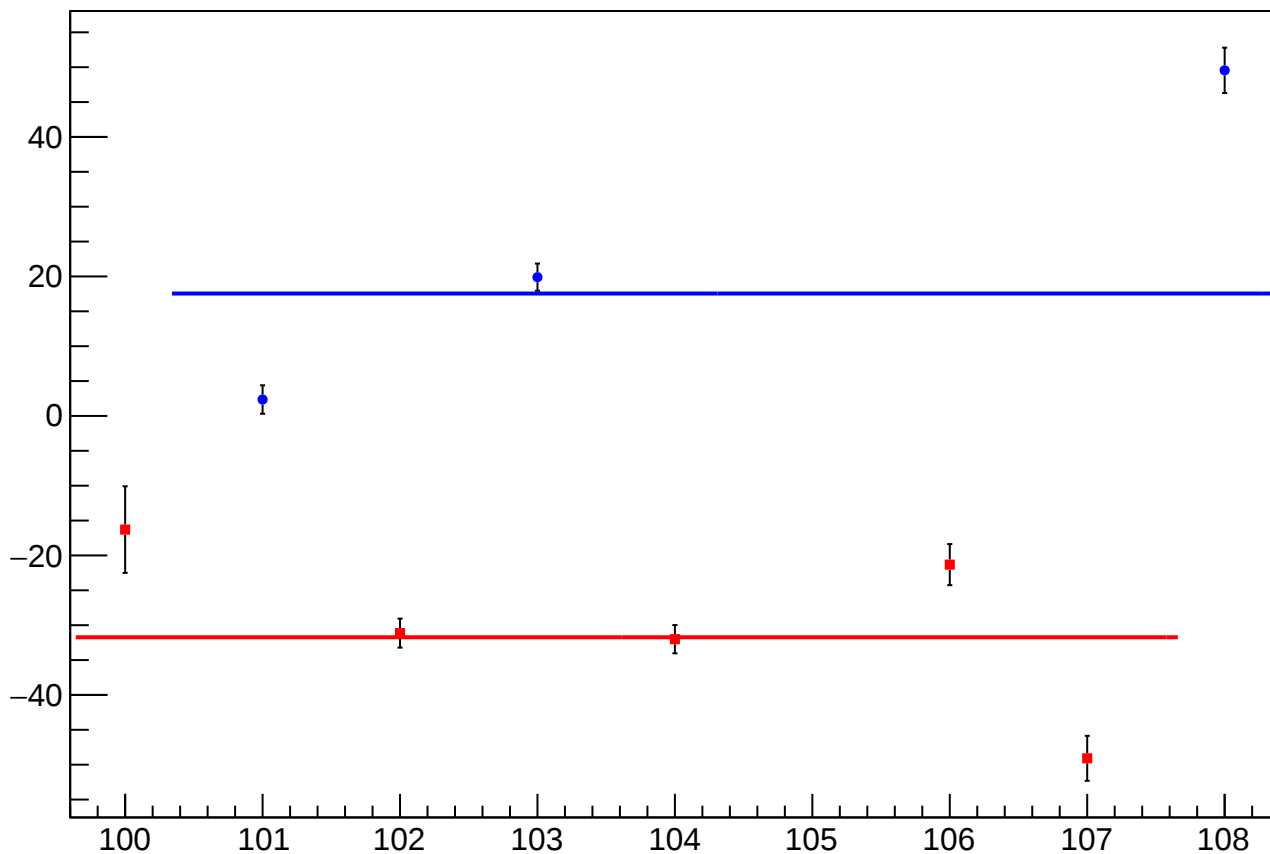
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1473.981 $\pm$ 0.578  $\chi^2$ /NDF: 89412.6/7

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

# diff\_bpm0i05X\_mean vs Slug



Right In: 17.550+/-1.294  $\chi^2$ /NDF: 153.8/2

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

Right Out: -31.730+/-1.184  $\chi^2$ /NDF: 47.7/4

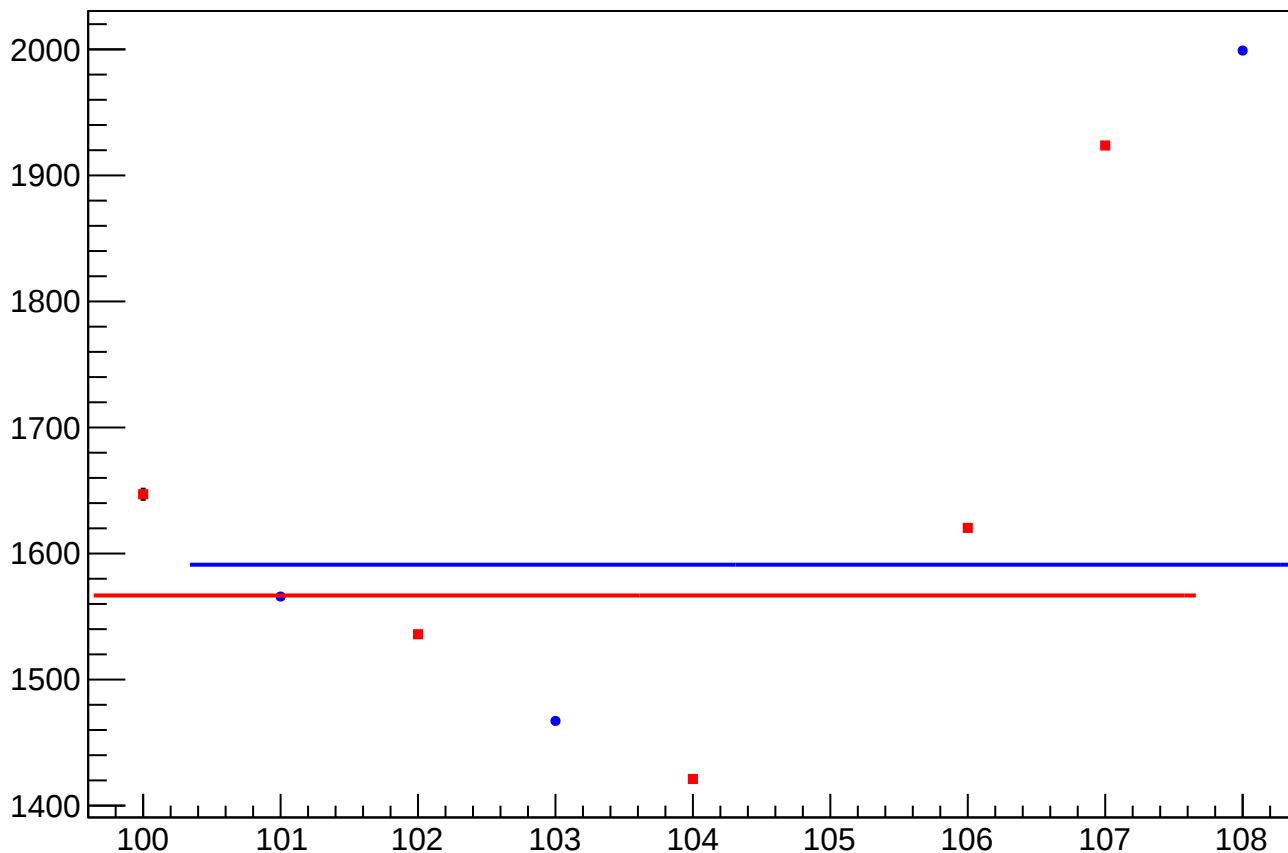
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -9.261+/-0.874  $\chi^2$ /NDF: 990.8/7

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

# diff\_bpm0i05X\_rms vs Slug



Right In: 1591.145 $\pm$ 0.915  $\chi^2$ /NDF: 39894.5/2

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

Right Out: 1566.728 $\pm$ 0.838  $\chi^2$ /NDF: 36295.8/4

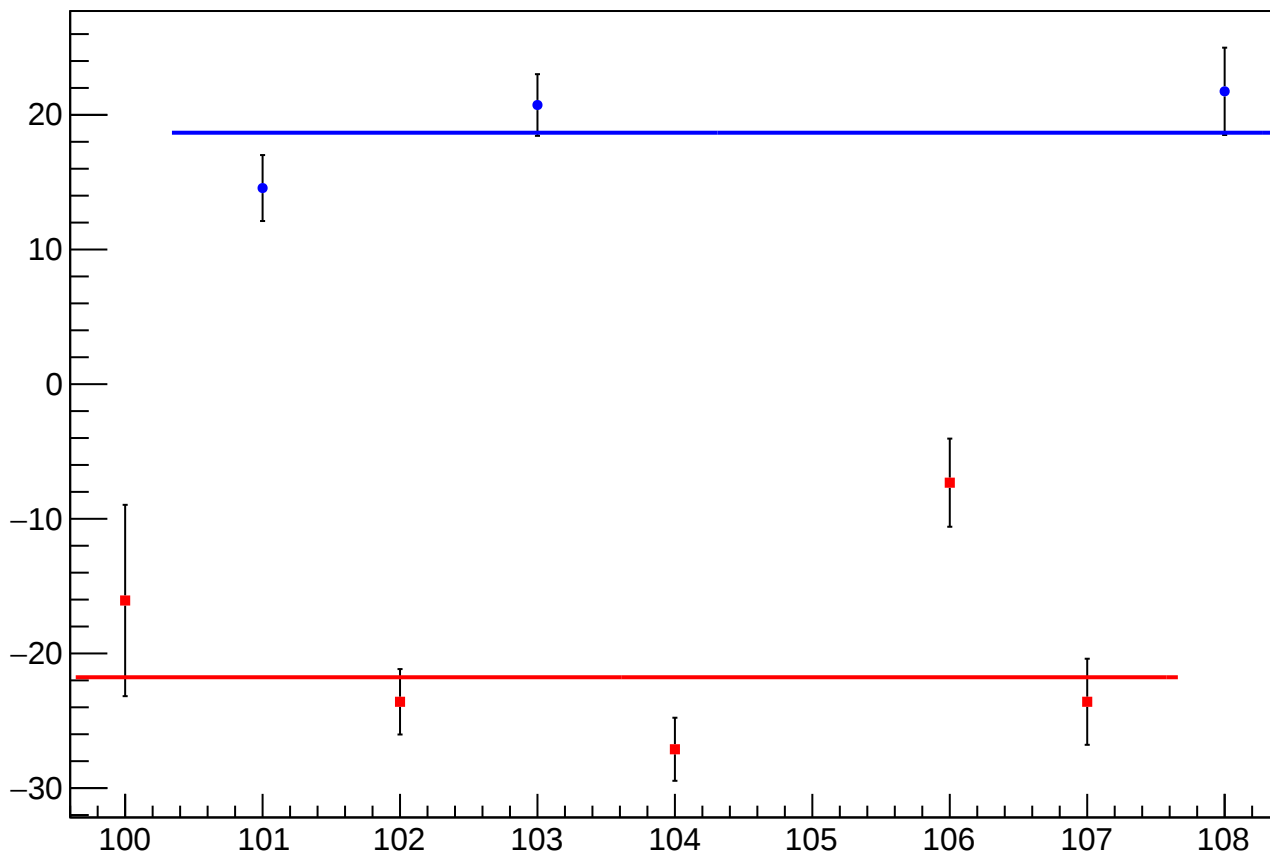
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1577.861 $\pm$ 0.618  $\chi^2$ /NDF: 76577.8/7

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

# diff\_bpm0i05Y\_mean vs Slug



Right In: 18.675+/-1.487  $\chi^2/\text{NDF}$ : 4.5/2

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

Right Out: -21.768+/-1.333  $\chi^2/\text{NDF}$ : 26.2/4

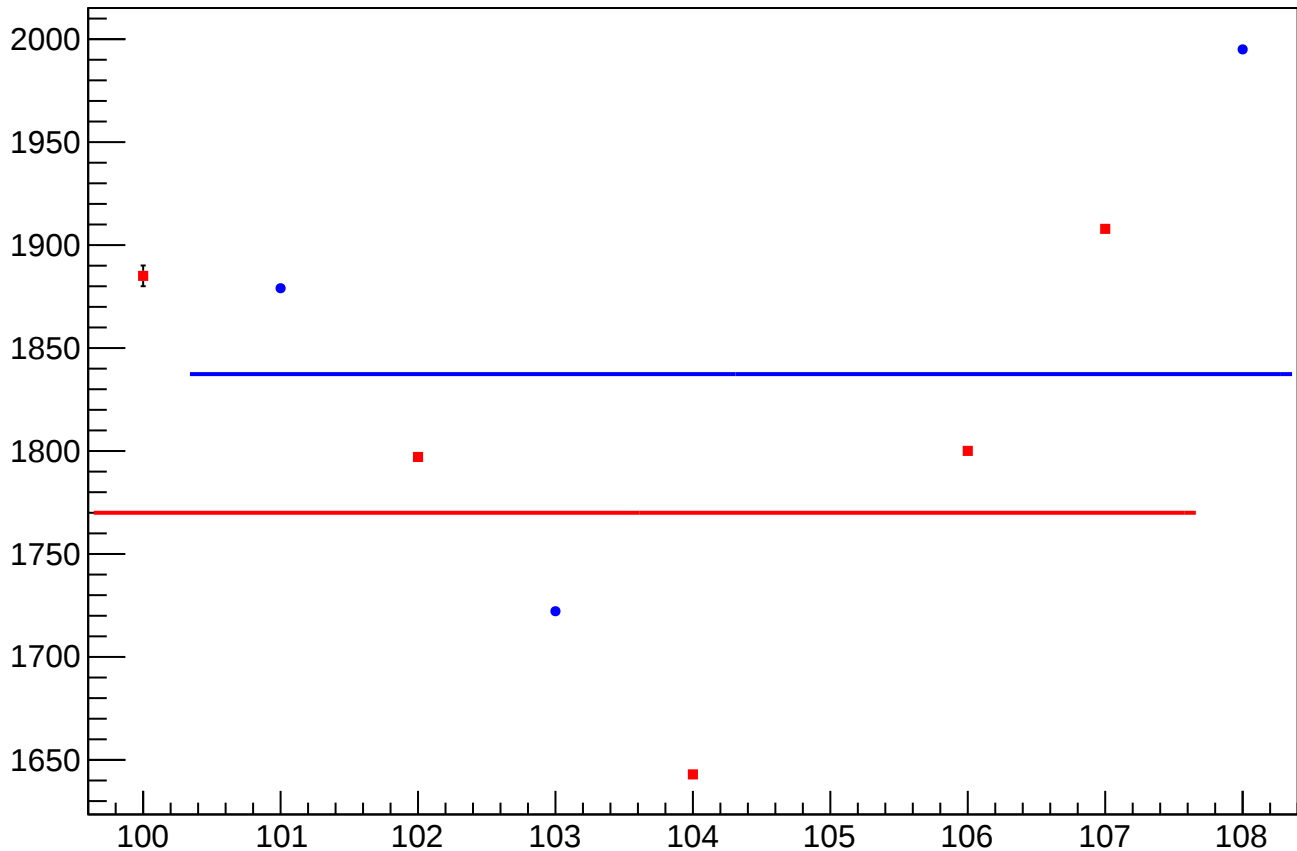
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -3.744+/-0.993  $\chi^2/\text{NDF}$ : 440.9/7

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

# diff\_bpm0i05Y\_rms vs Slug



Right In: 1837.347 $\pm$ 1.051  $\chi^2$ /NDF: 10365.4/2

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

Right Out: 1770.016 $\pm$ 0.943  $\chi^2$ /NDF: 10546.1/4

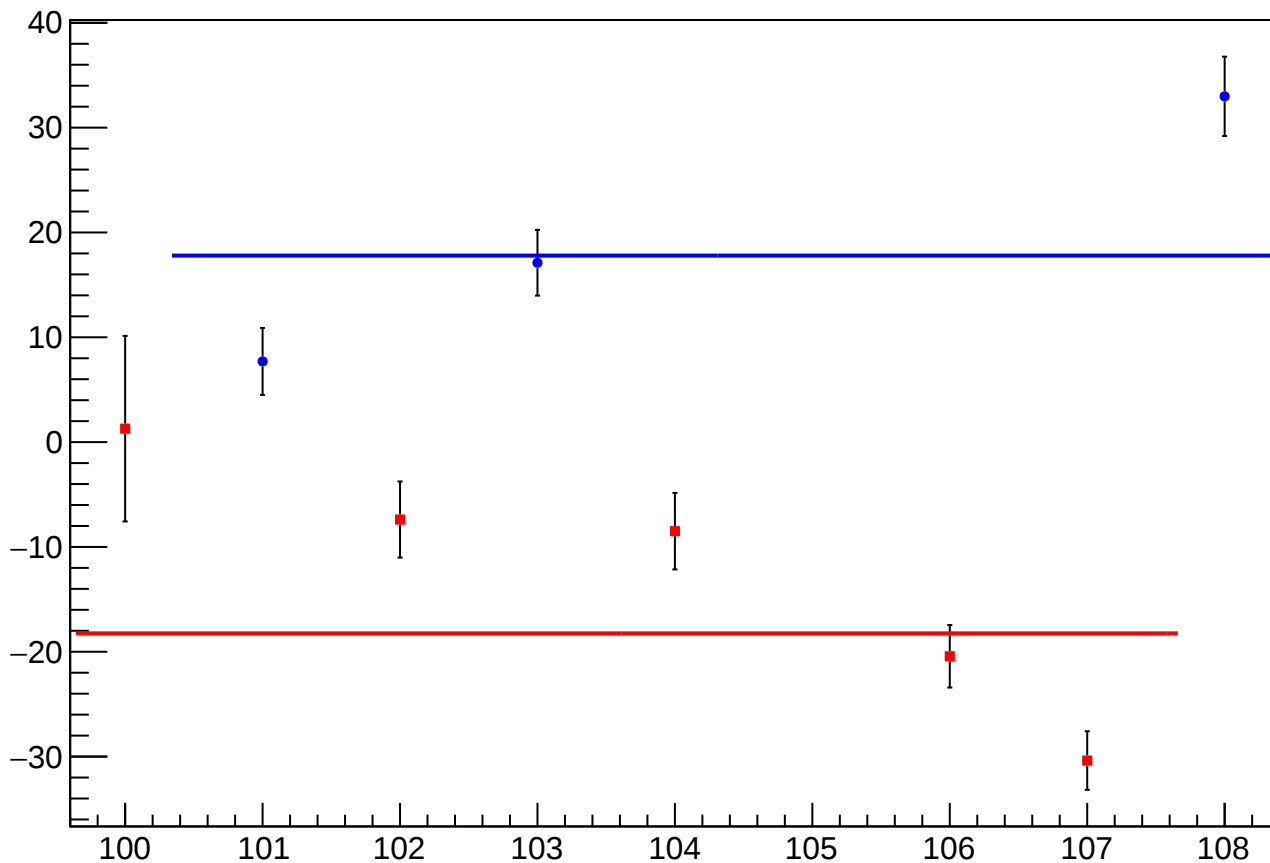
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1800.023 $\pm$ 0.702  $\chi^2$ /NDF: 23185.2/7

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

# diff\_bpm0i07X\_mean vs Slug



Right In: 17.796+/-1.926  $\chi^2/\text{NDF}$ : 26.1/2

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

Right Out: -18.245+/-1.572  $\chi^2/\text{NDF}$ : 40.4/4

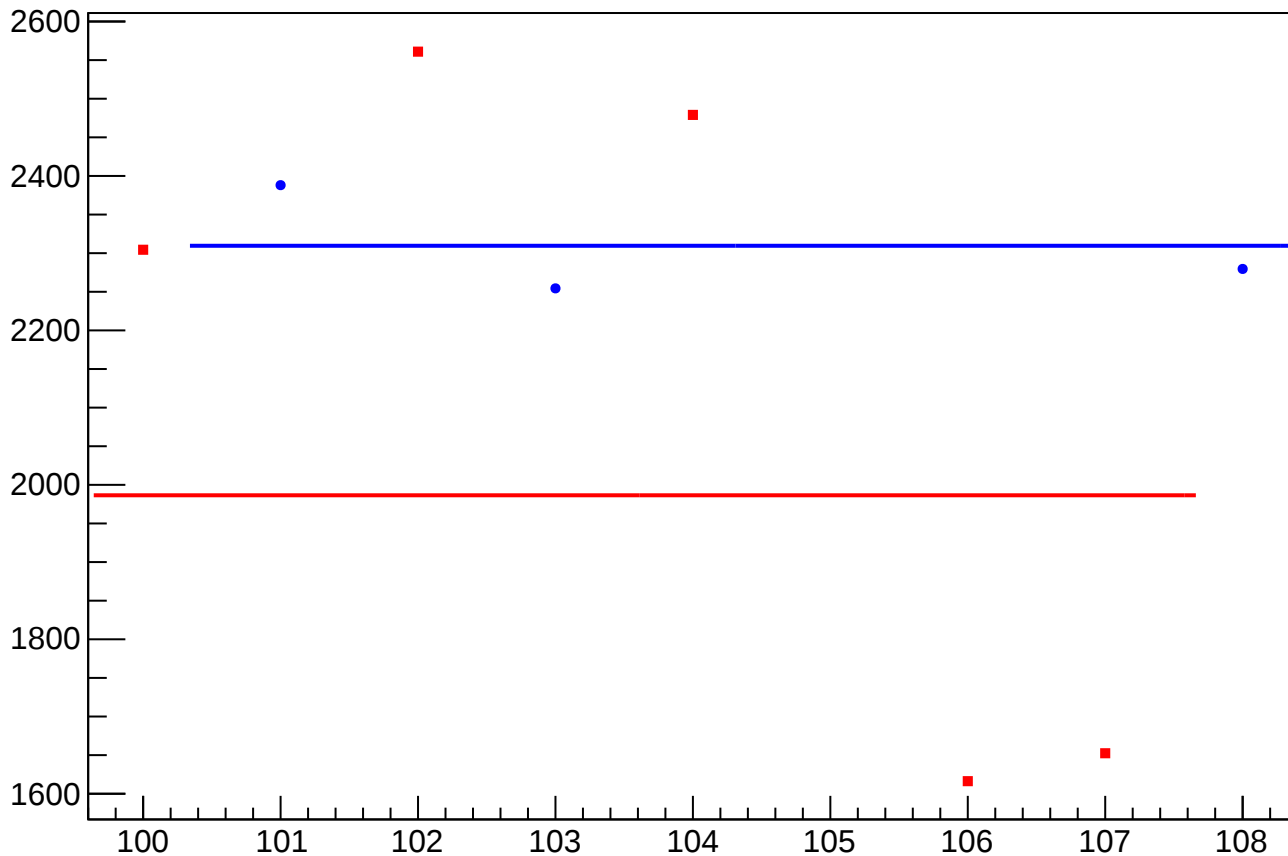
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -3.836+/-1.218  $\chi^2/\text{NDF}$ : 276.6/7

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

# diff\_bpm0i07X\_rms vs Slug



Right In: 2309.586 $\pm$ 1.362  $\chi^2$ /NDF: 1952.6/2

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

Right Out: 1986.483 $\pm$ 1.112  $\chi^2$ /NDF: 148546.0/4

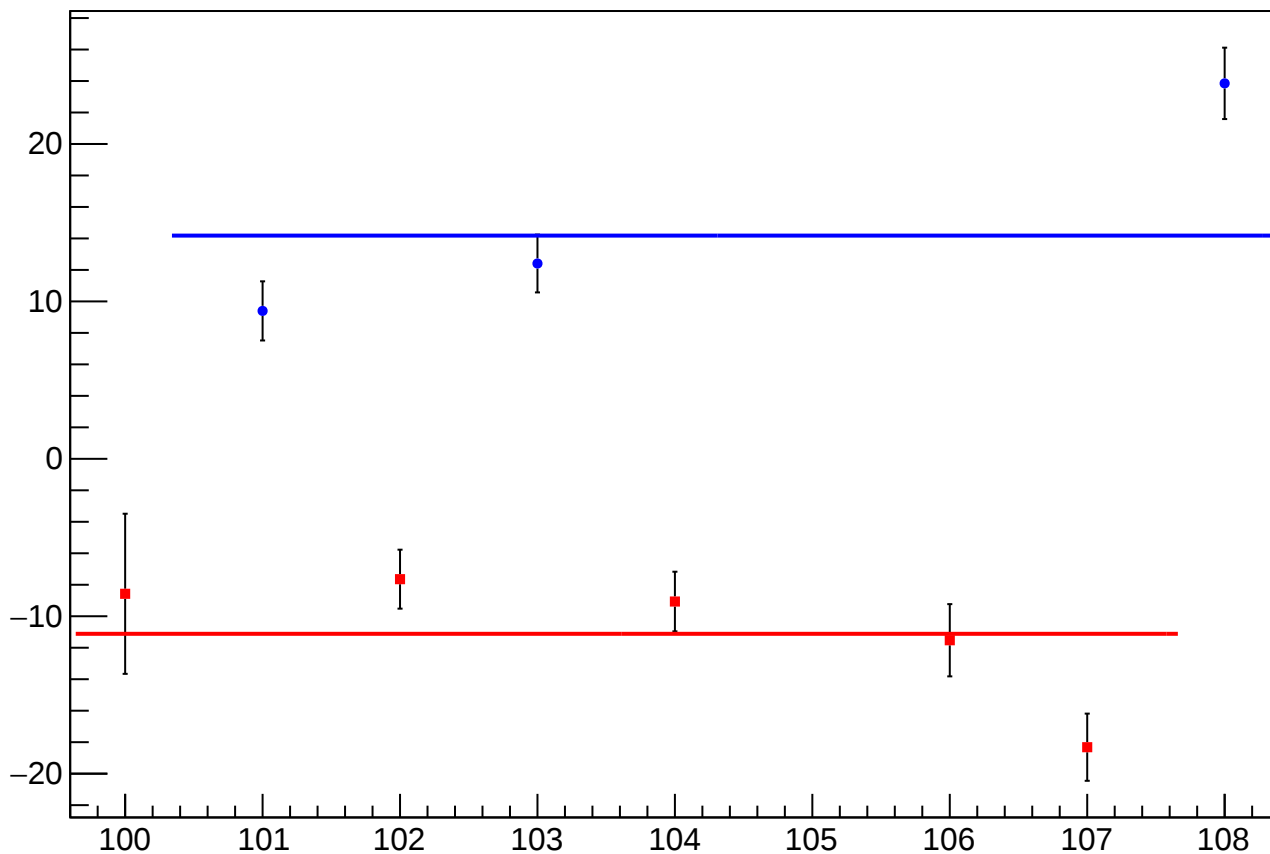
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 2115.659 $\pm$ 0.861  $\chi^2$ /NDF: 184271.9/7

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

# diff\_bpm0i07Y\_mean vs Slug



Right In: 14.181 $\pm$ 1.136  $\chi^2$ /NDF: 25.6/2

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

Right Out: -11.116 $\pm$ 0.994  $\chi^2$ /NDF: 16.3/4

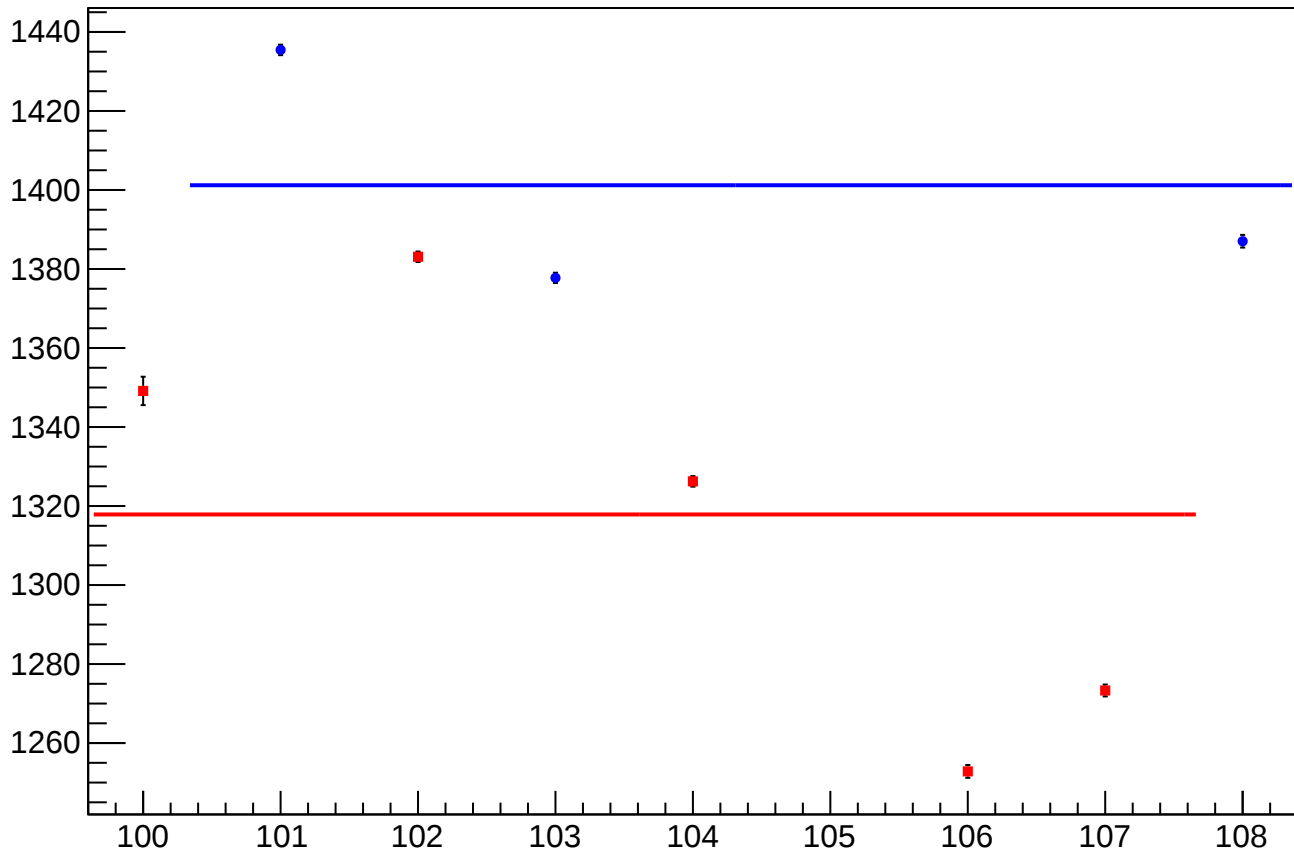
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.151 $\pm$ 0.748  $\chi^2$ /NDF: 322.6/7

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

# diff\_bpm0i07Y\_rms vs Slug



Right In: 1401.200 $\pm$ 0.804  $\chi^2$ /NDF: 1068.9/2

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

Right Out: 1317.867 $\pm$ 0.703  $\chi^2$ /NDF: 5019.5/4

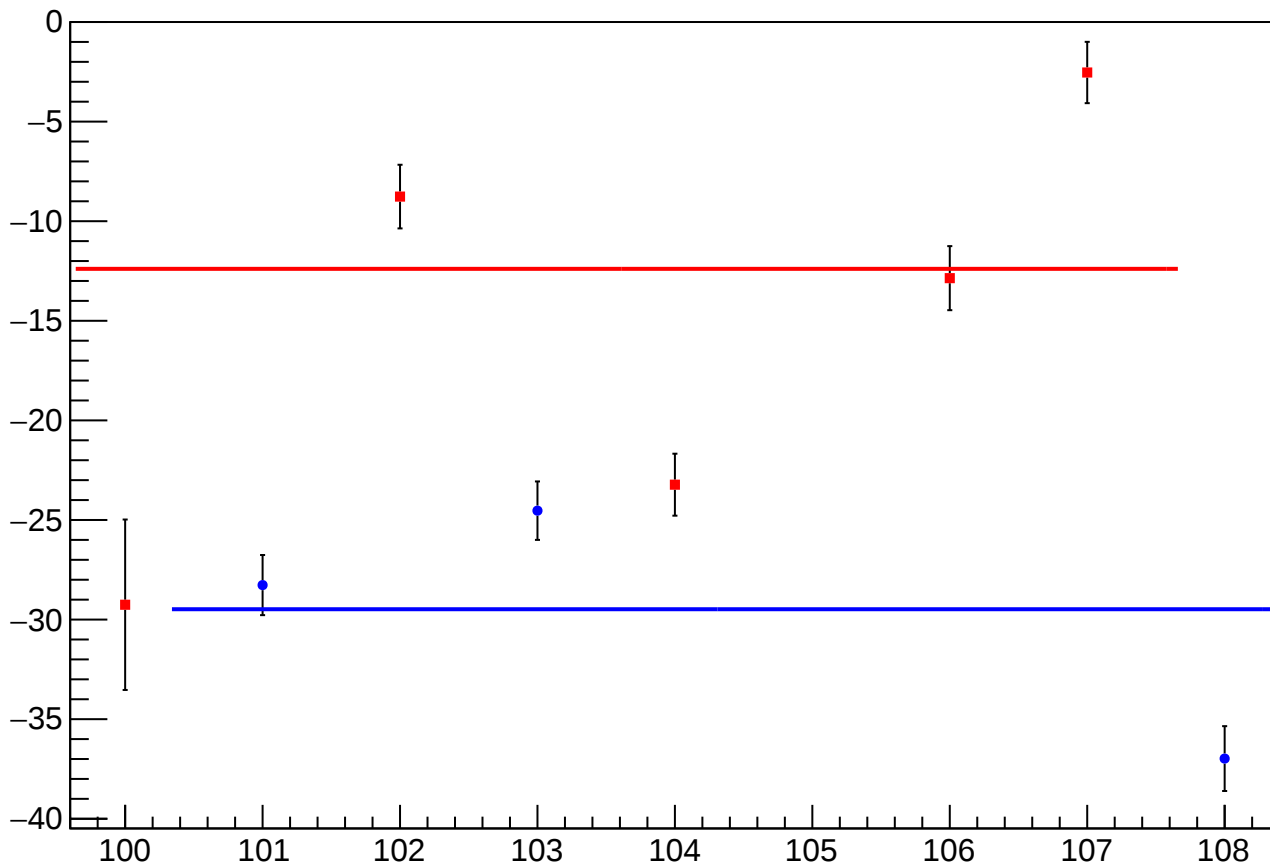
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1353.986 $\pm$ 0.529  $\chi^2$ /NDF: 12181.9/7

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

# diff\_bpm1i02X\_mean vs Slug



Right In:  $-29.480 \pm 0.884$   $\chi^2/\text{NDF}$ : 33.2/2

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

Right Out:  $-12.392 \pm 0.774$   $\chi^2/\text{NDF}$ : 110.3/4

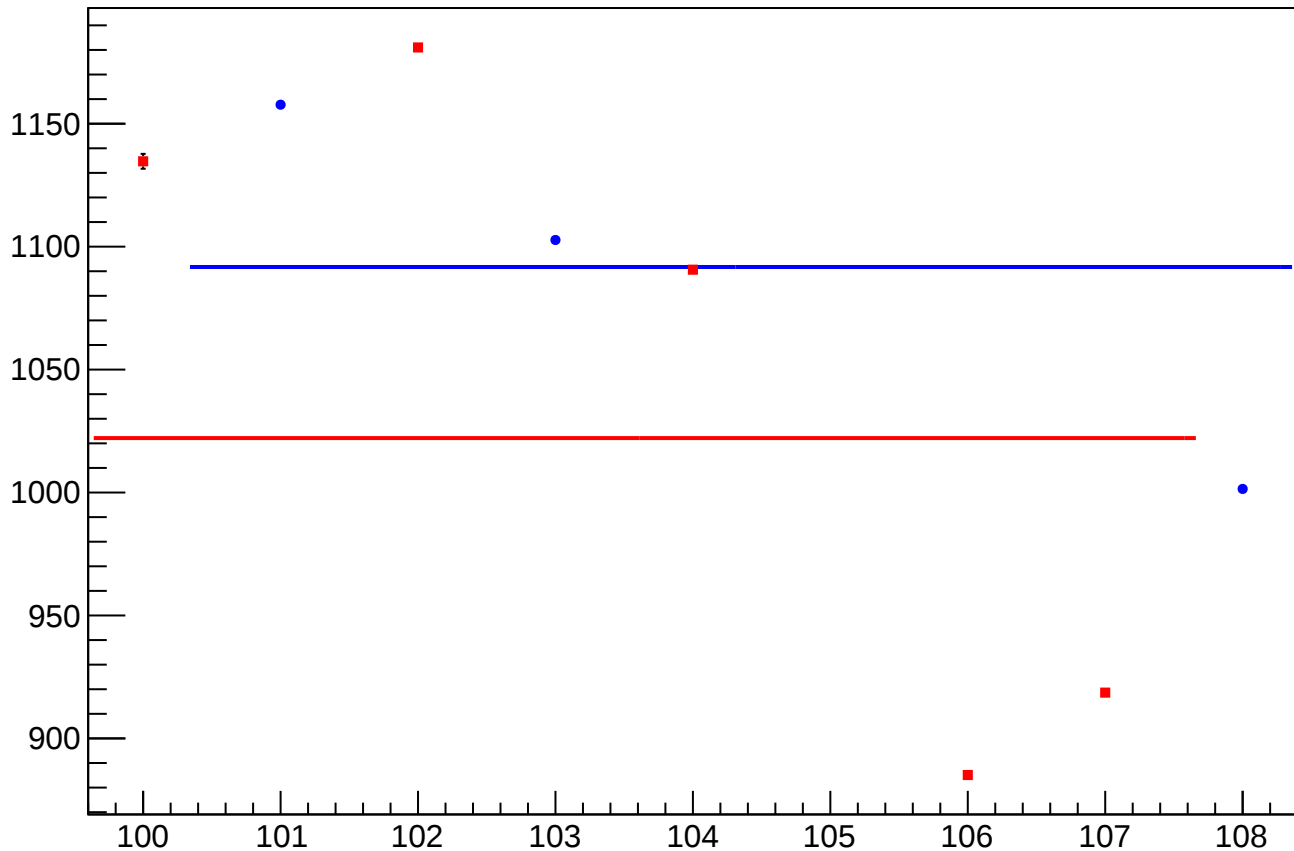
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-19.813 \pm 0.582$   $\chi^2/\text{NDF}$ : 355.1/7

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

# diff\_bpm1i02X\_rms vs Slug



Right In: 1091.723+/-0.625  $\chi^2/\text{NDF}$ : 10086.1/2

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

Right Out: 1022.145+/-0.547  $\chi^2/\text{NDF}$ : 48603.4/4

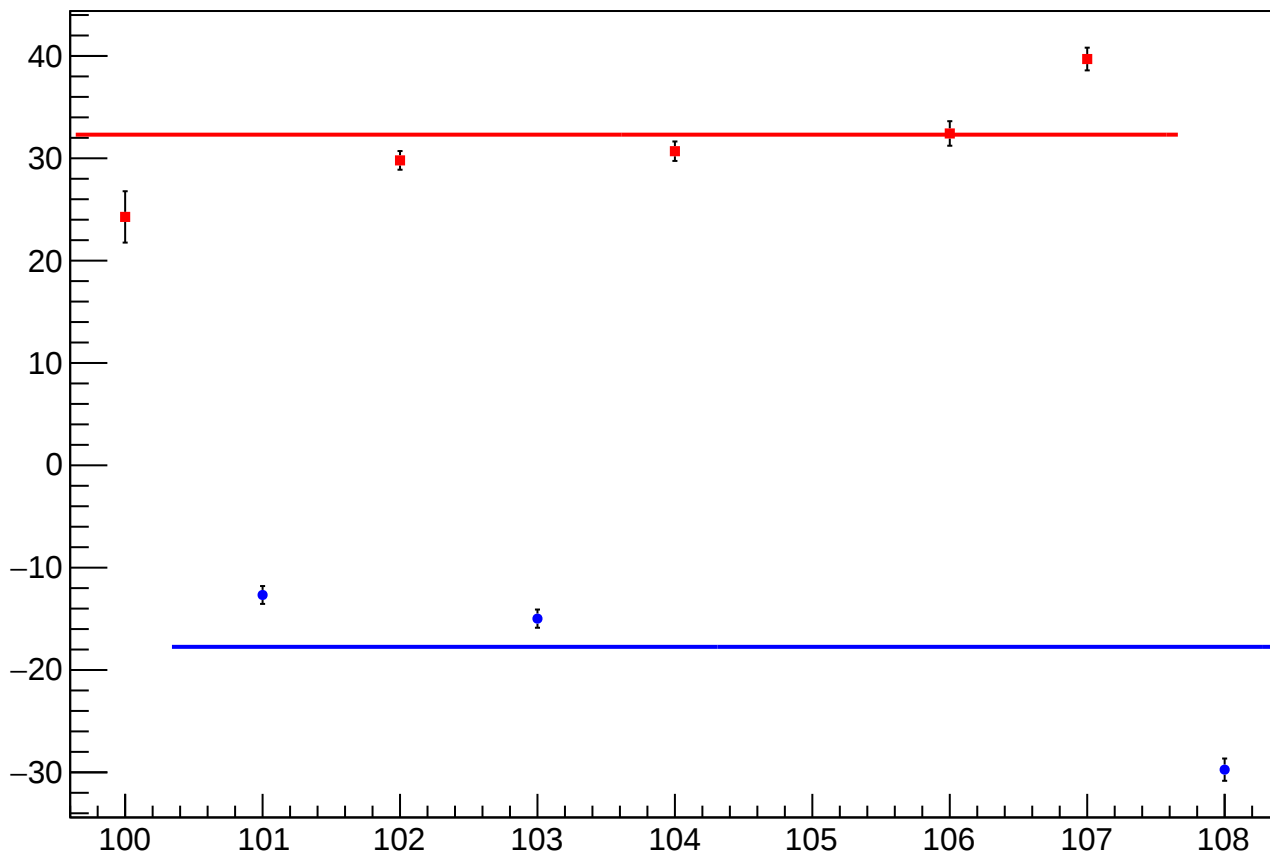
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1052.362+/-0.412  $\chi^2/\text{NDF}$ : 65705.1/7

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

diff\_bpm1i02Y\_mean vs Slug



Right In:  $-17.737 \pm 0.541$   $\chi^2/\text{NDF}$ : 164.9/2

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

Right Out:  $32.310 \pm 0.502$   $\chi^2/\text{NDF}$ : 65.1/4

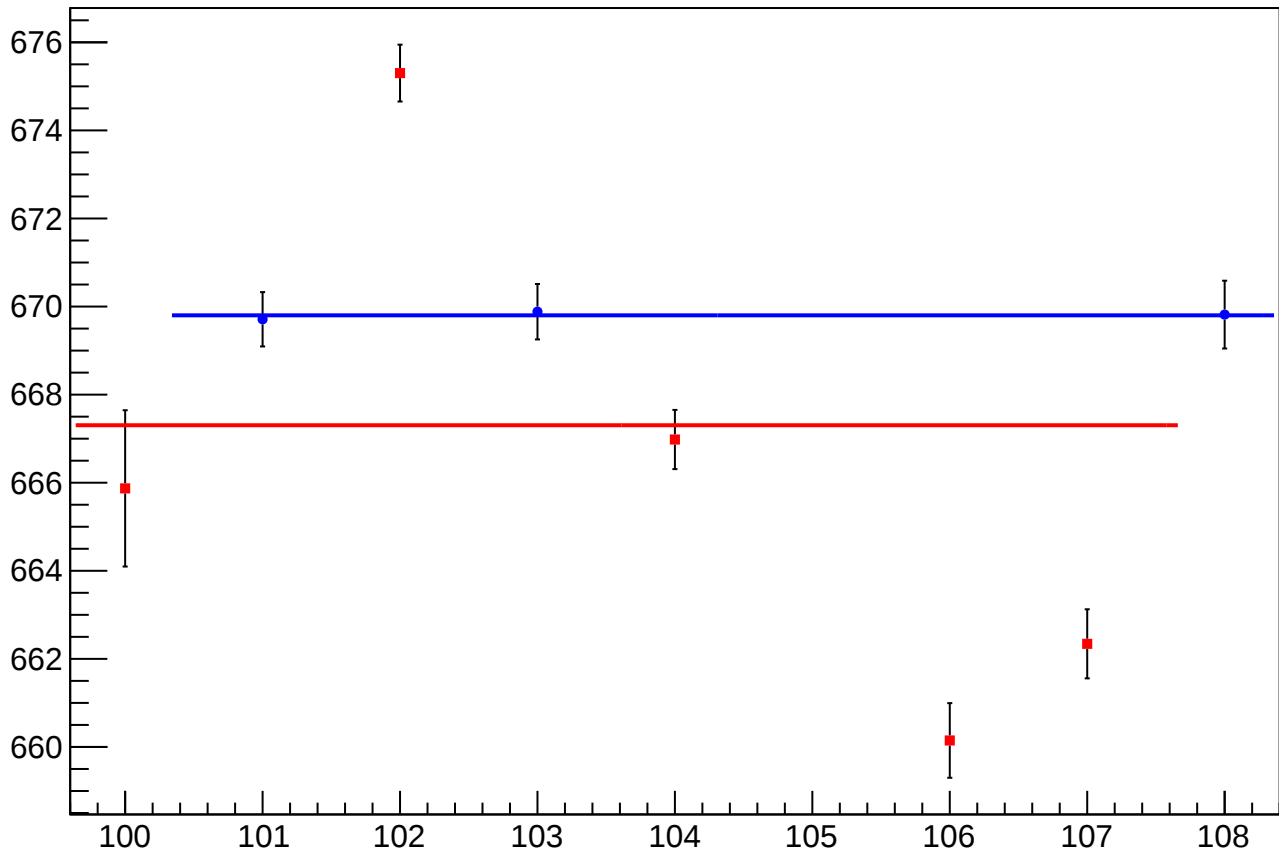
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $9.165 \pm 0.368$   $\chi^2/\text{NDF}$ : 4833.8/7

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

# diff\_bpm1i02Y\_rms vs Slug



Right In: 669.801 $\pm$ 0.382  $\chi^2$ /NDF: 0.0/2

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

Right Out: 667.305 $\pm$ 0.355  $\chi^2$ /NDF: 265.7/4

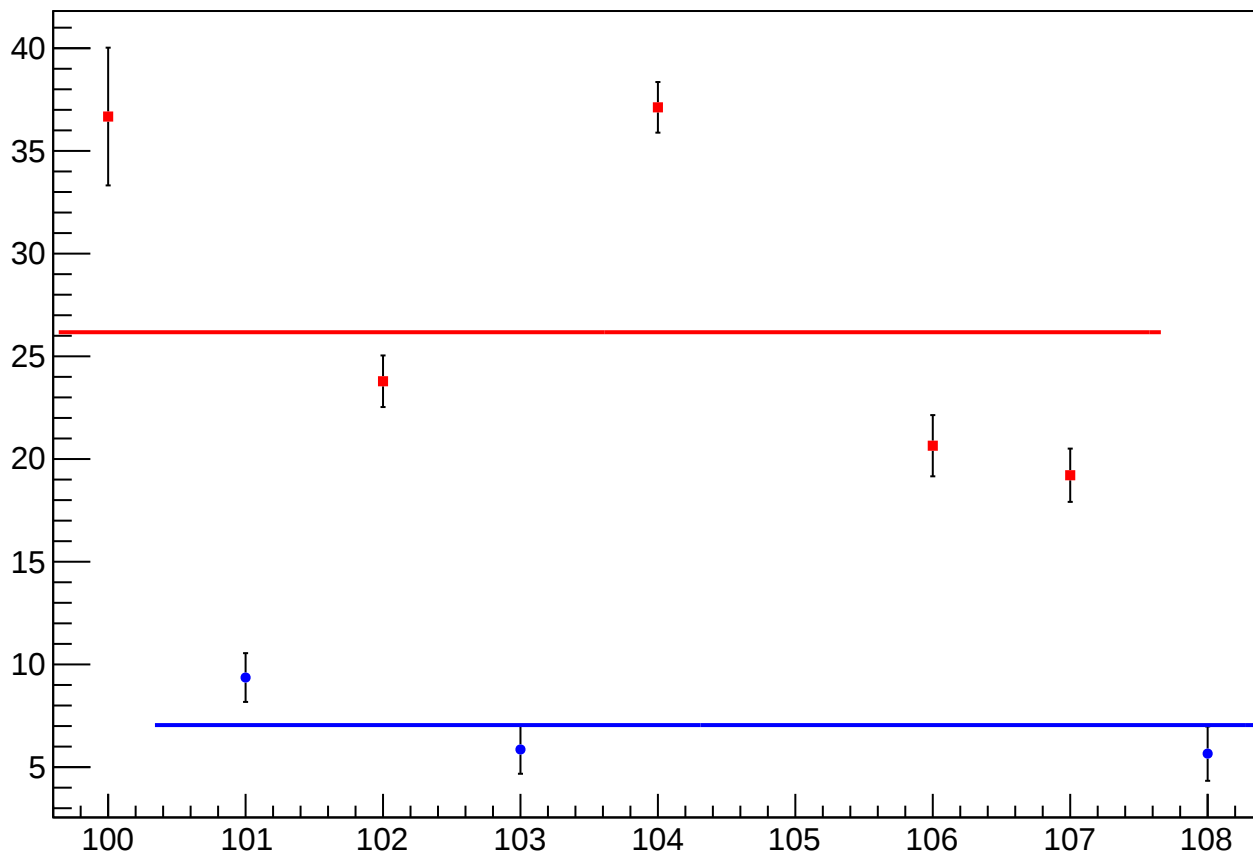
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 668.459 $\pm$ 0.260  $\chi^2$ /NDF: 288.6/7

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

diff\_bpm1i04X\_mean vs Slug



Right In: 7.047 $\pm$ 0.708  $\chi^2$ /NDF: 5.9/2

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

Right Out: 26.174 $\pm$ 0.642  $\chi^2$ /NDF: 134.9/4

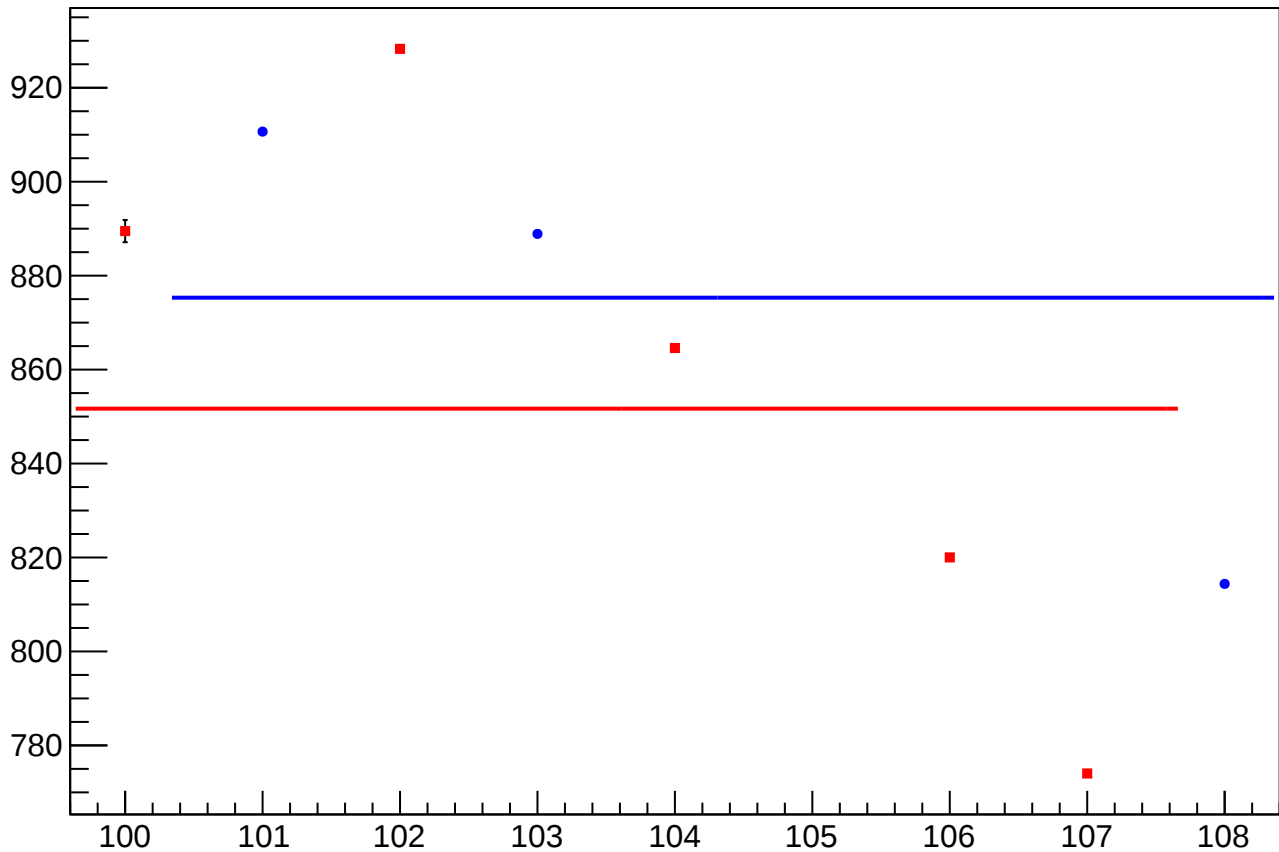
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 17.542 $\pm$ 0.476  $\chi^2$ /NDF: 541.3/7

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

# diff\_bpm1i04X\_rms vs Slug



Right In: 875.312 $\pm$ 0.501  $\chi^2$ /NDF: 6276.9/2

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

Right Out: 851.686 $\pm$ 0.454  $\chi^2$ /NDF: 15991.4/4

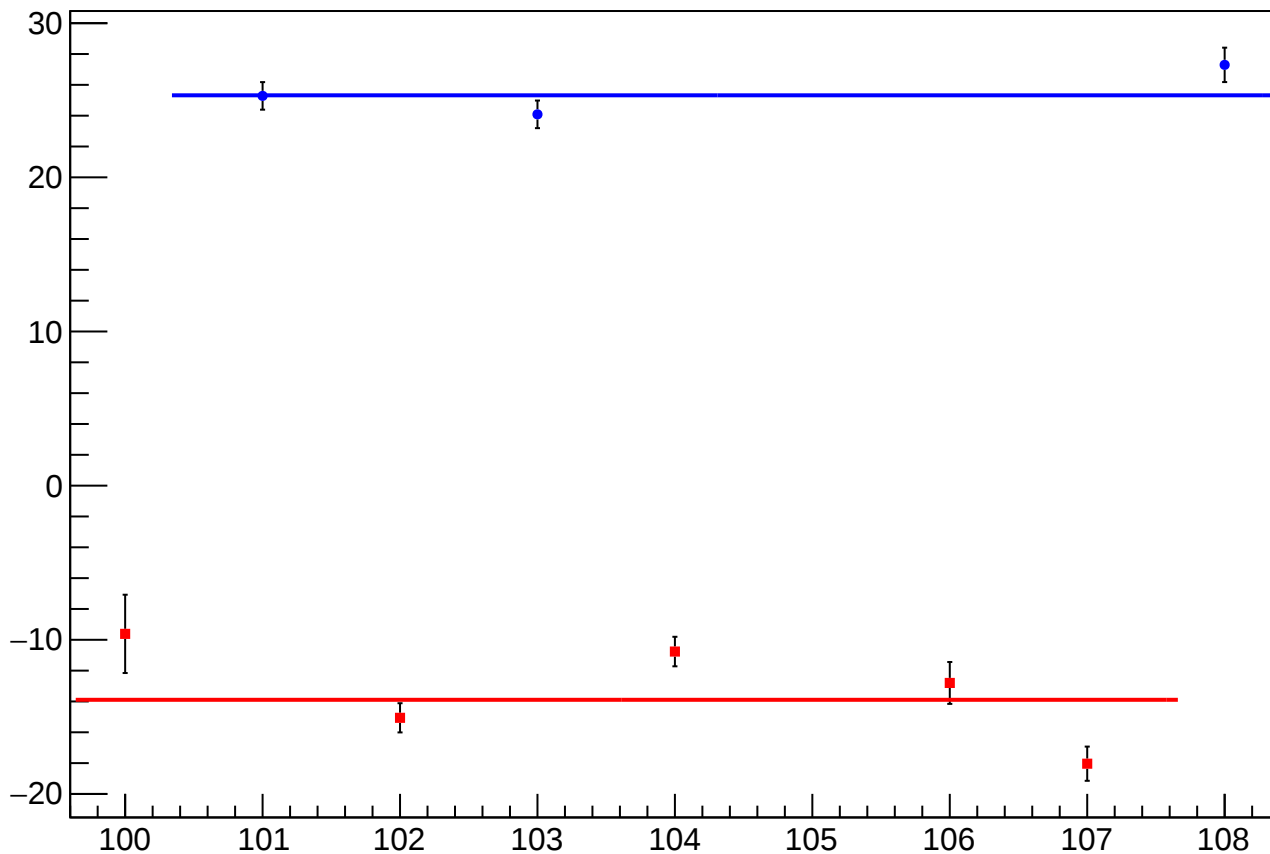
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 862.348 $\pm$ 0.336  $\chi^2$ /NDF: 23490.7/7

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

# diff\_bpm1i04Y\_mean vs Slug



Right In: 25.321 $\pm$ 0.550  $\chi^2$ /NDF: 5.0/2

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

Right Out: -13.893 $\pm$ 0.519  $\chi^2$ /NDF: 29.6/4

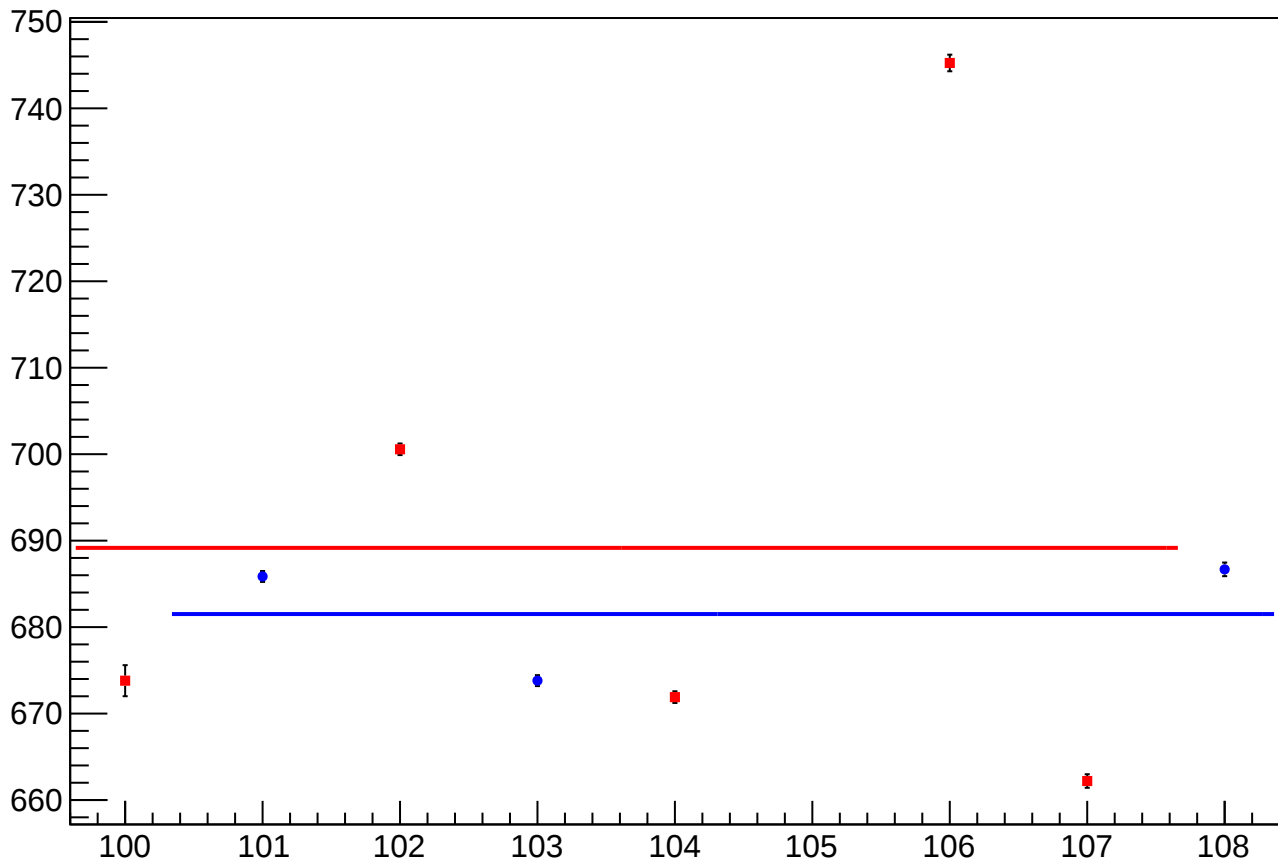
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 4.558 $\pm$ 0.378  $\chi^2$ /NDF: 2722.5/7

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

# diff\_bpm1i04Y\_rms vs Slug



Right In: 681.510 $\pm$ 0.389  $\chi^2$ /NDF: 238.0/2

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

Right Out: 689.165 $\pm$ 0.367  $\chi^2$ /NDF: 5604.4/4

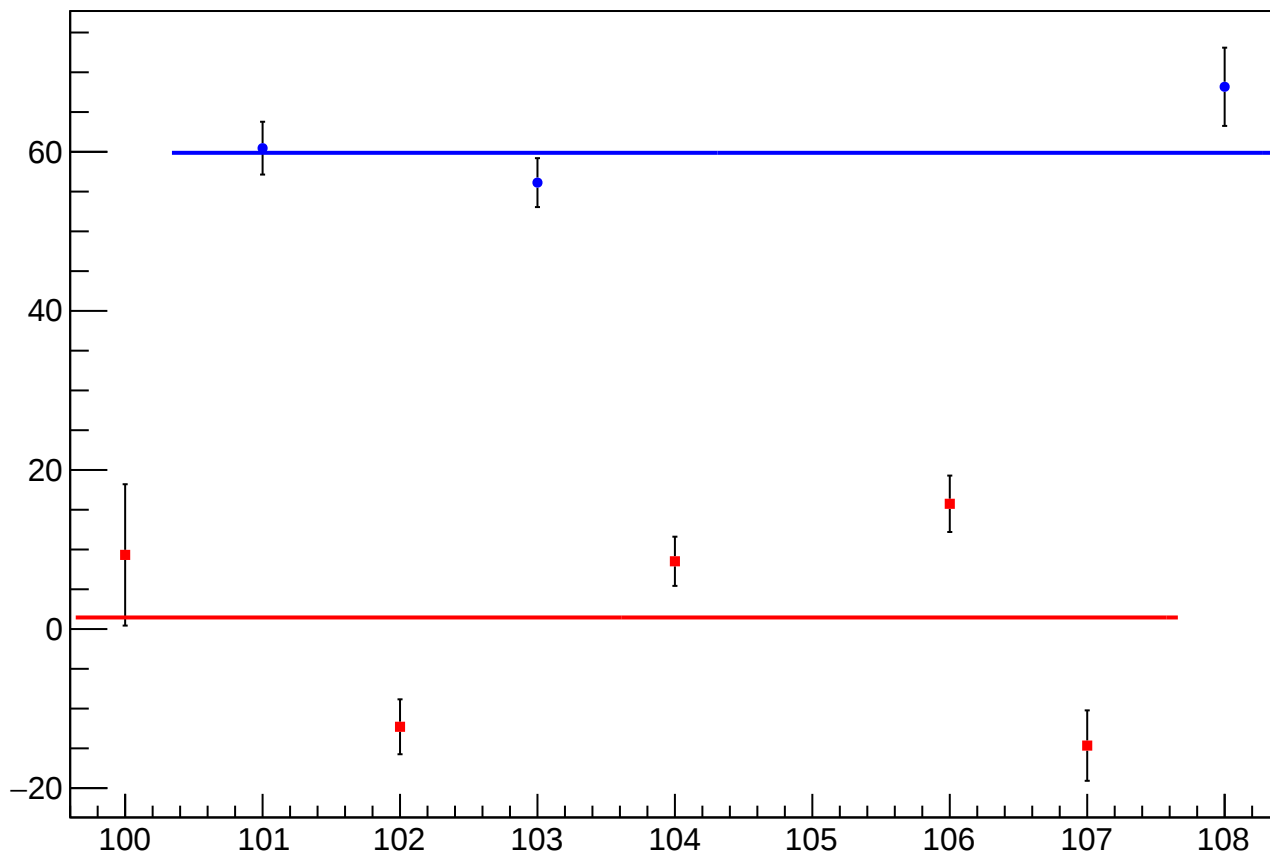
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 685.564 $\pm$ 0.267  $\chi^2$ /NDF: 6047.3/7

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

# diff\_bpm1i06X\_mean vs Slug



Right In: 59.876 $\pm$ 2.051  $\chi^2$ /NDF: 4.4/2

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

Right Out: 1.455 $\pm$ 1.736  $\chi^2$ /NDF: 51.3/4

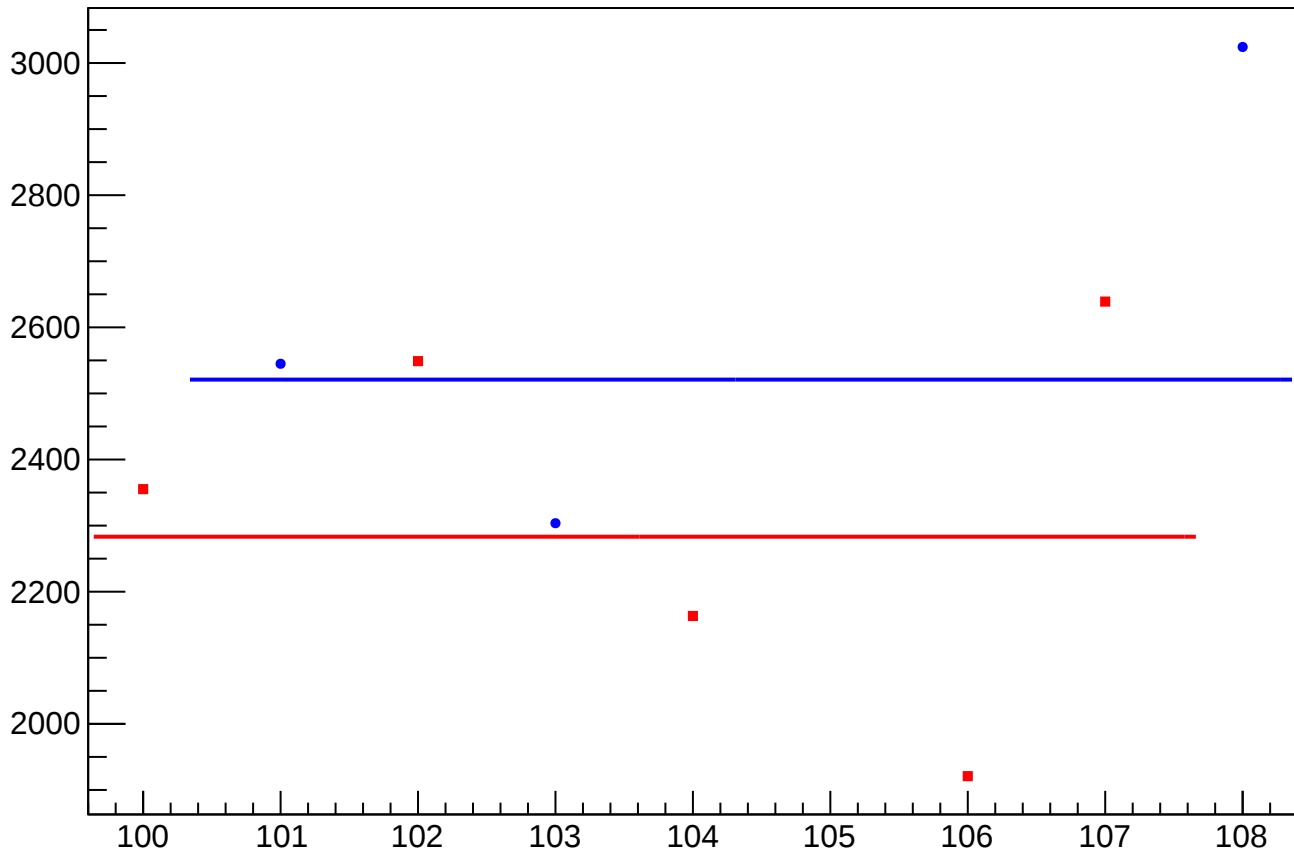
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 25.849 $\pm$ 1.325  $\chi^2$ /NDF: 528.3/7

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

# diff\_bpm1i06X\_rms vs Slug



Right In: 2520.948+/-1.450  $\chi^2/\text{NDF}$ : 31031.4/2

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

Right Out: 2283.220+/-1.228  $\chi^2/\text{NDF}$ : 48774.6/4

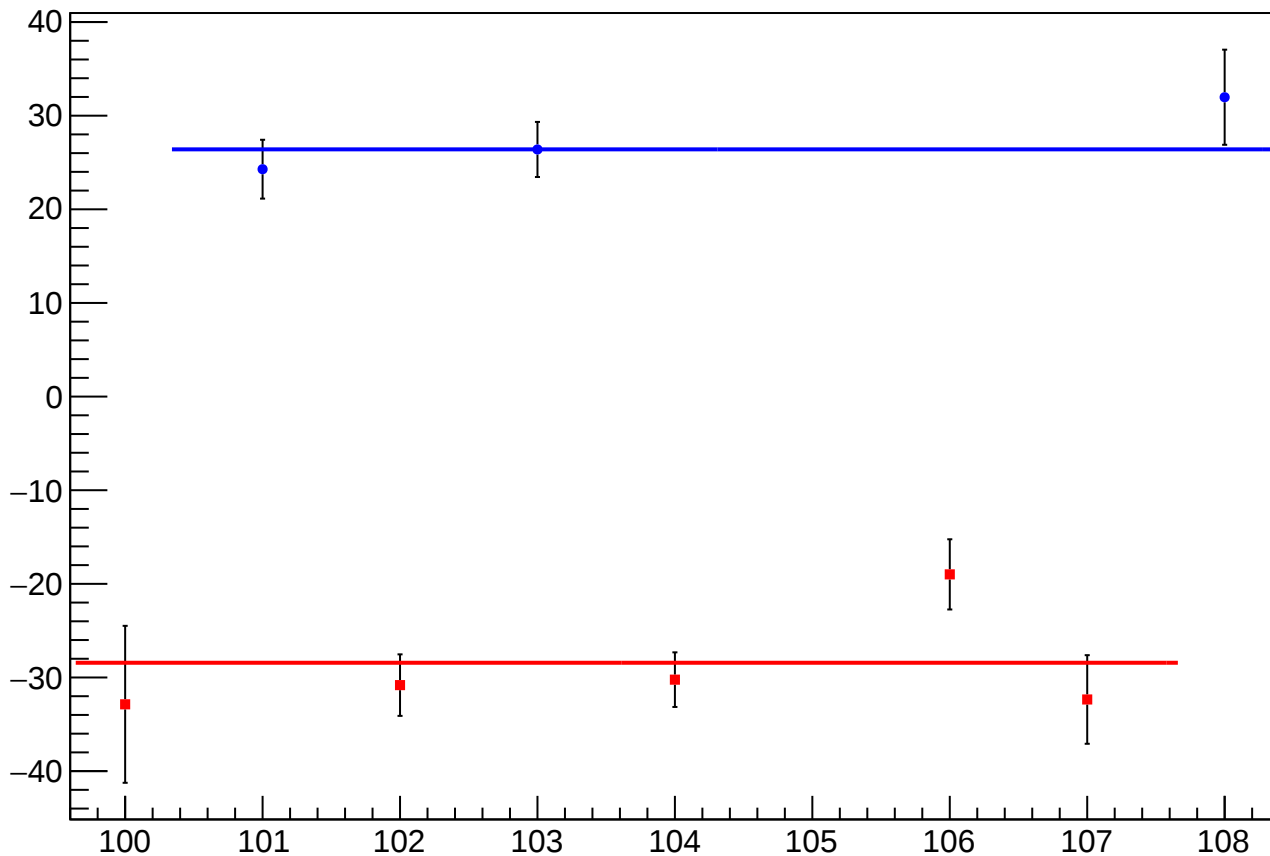
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2382.486+/-0.937  $\chi^2/\text{NDF}$ : 95458.8/7

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

# diff\_bpm1i06Y\_mean vs Slug



Right In: 26.403 $\pm$ 1.978  $\chi^2$ /NDF: 1.7/2

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

Right Out: -28.427 $\pm$ 1.714  $\chi^2$ /NDF: 8.2/4

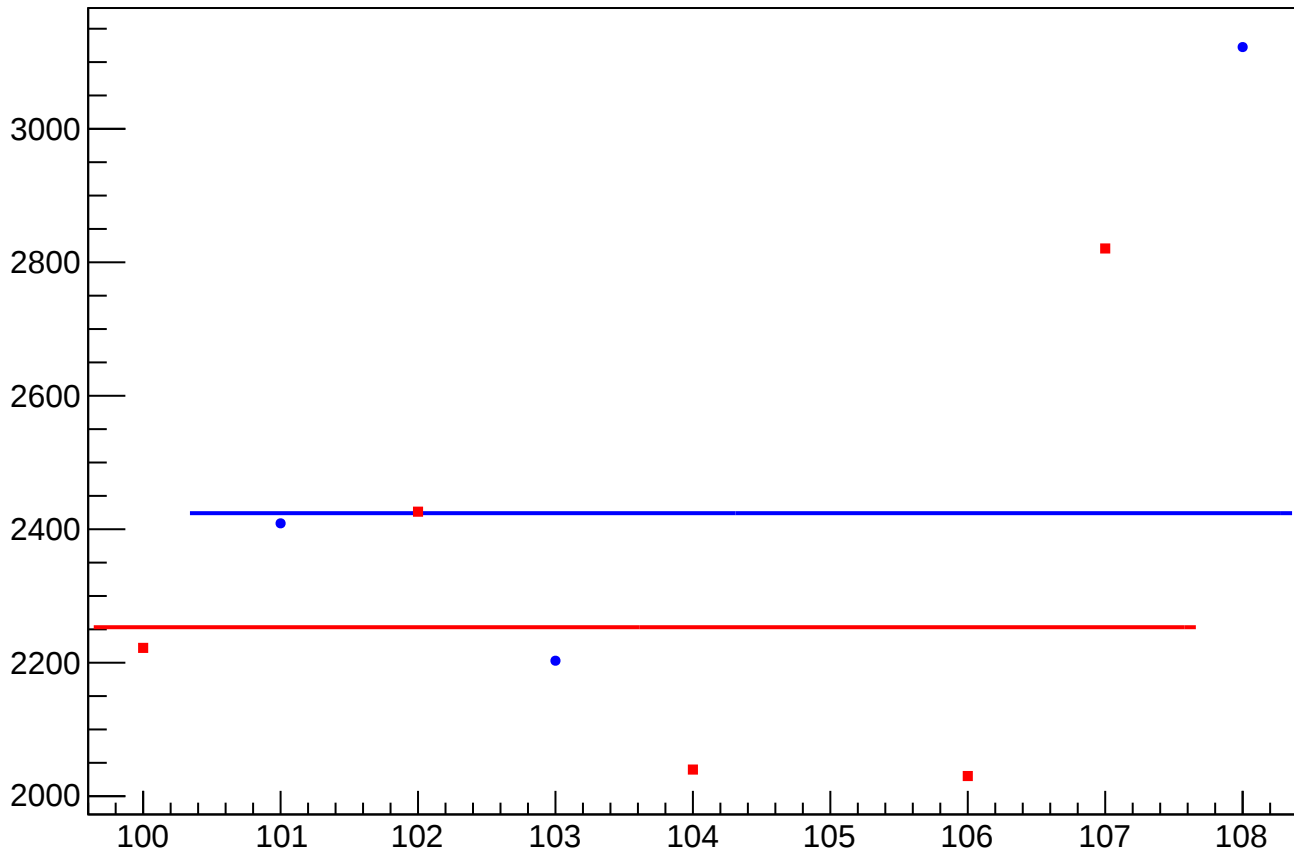
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -4.910 $\pm$ 1.296  $\chi^2$ /NDF: 448.6/7

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

# diff\_bpm1i06Y\_rms vs Slug



Right In: 2424.078 $\pm$ 1.399  $\chi^2$ /NDF: 49156.7/2

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

Right Out: 2253.199 $\pm$ 1.212  $\chi^2$ /NDF: 52120.5/4

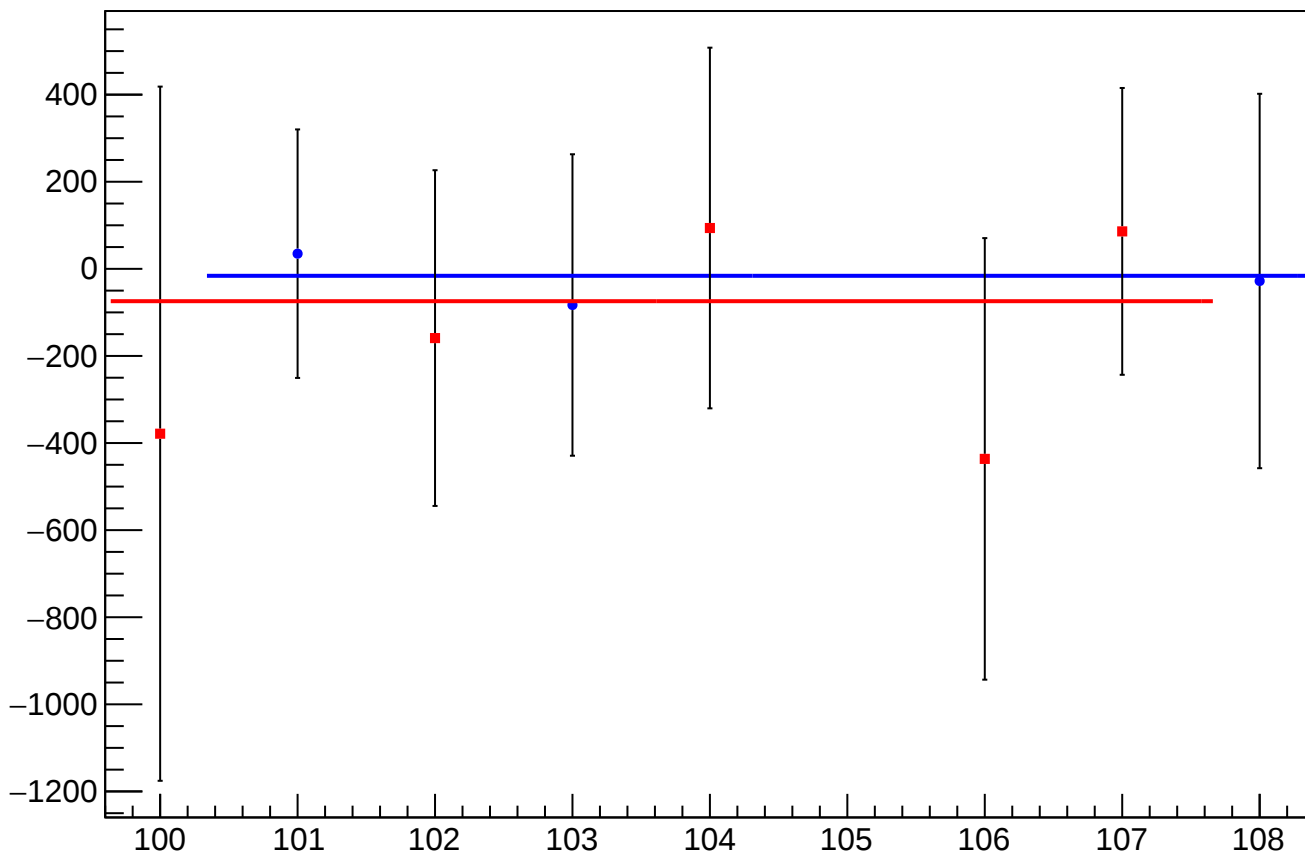
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 2326.492 $\pm$ 0.916  $\chi^2$ /NDF: 109799.1/7

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

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



Right In: -15.985 $\pm$ 195.961  $\chi^2$ /NDF: 0.1/2

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

Right Out: -74.280 $\pm$ 191.577  $\chi^2$ /NDF: 1.1/4

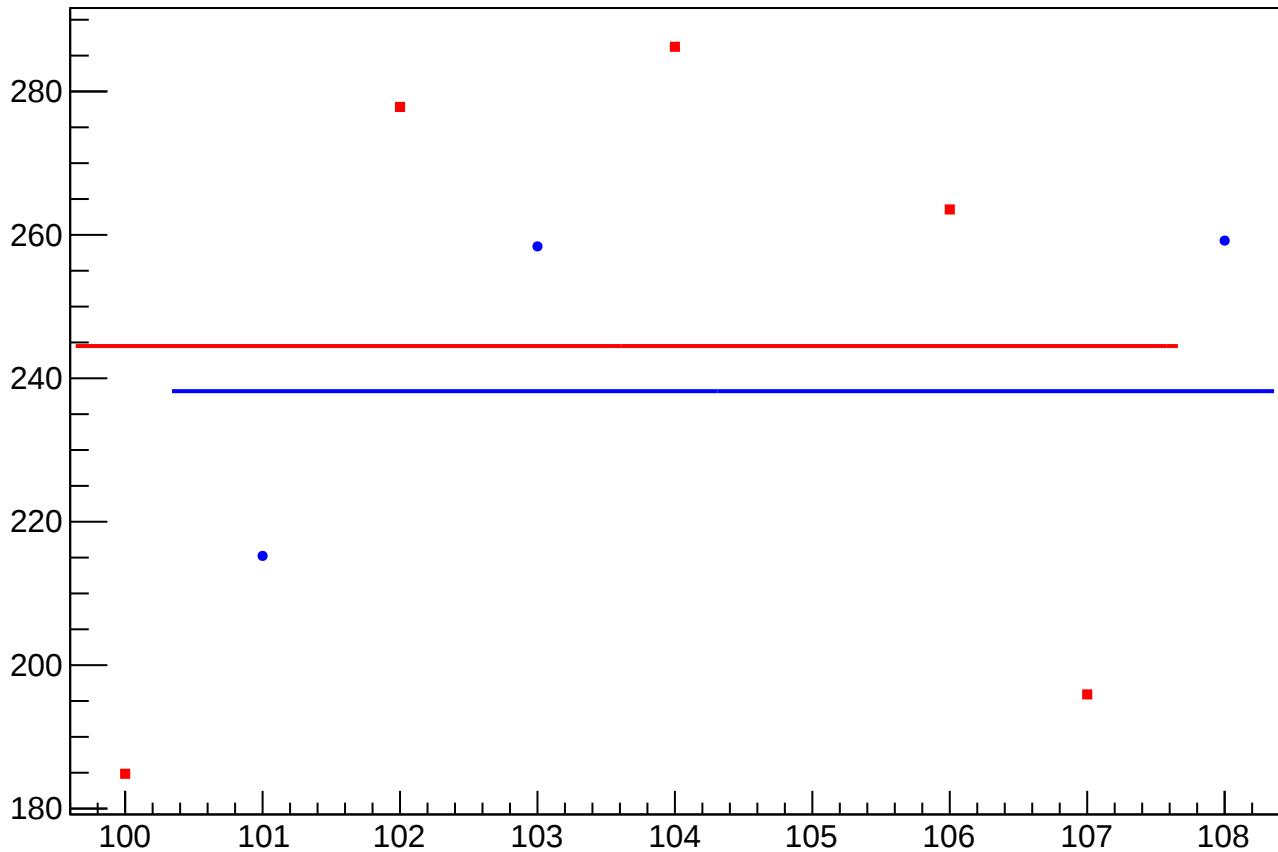
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -45.792 $\pm$ 136.989  $\chi^2$ /NDF: 1.2/7

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

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



Right In: 238.207 $\pm$ 0.139  $\chi^2$ /NDF: 24536.0/2

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

Right Out: 244.499 $\pm$ 0.135  $\chi^2$ /NDF: 92816.2/4

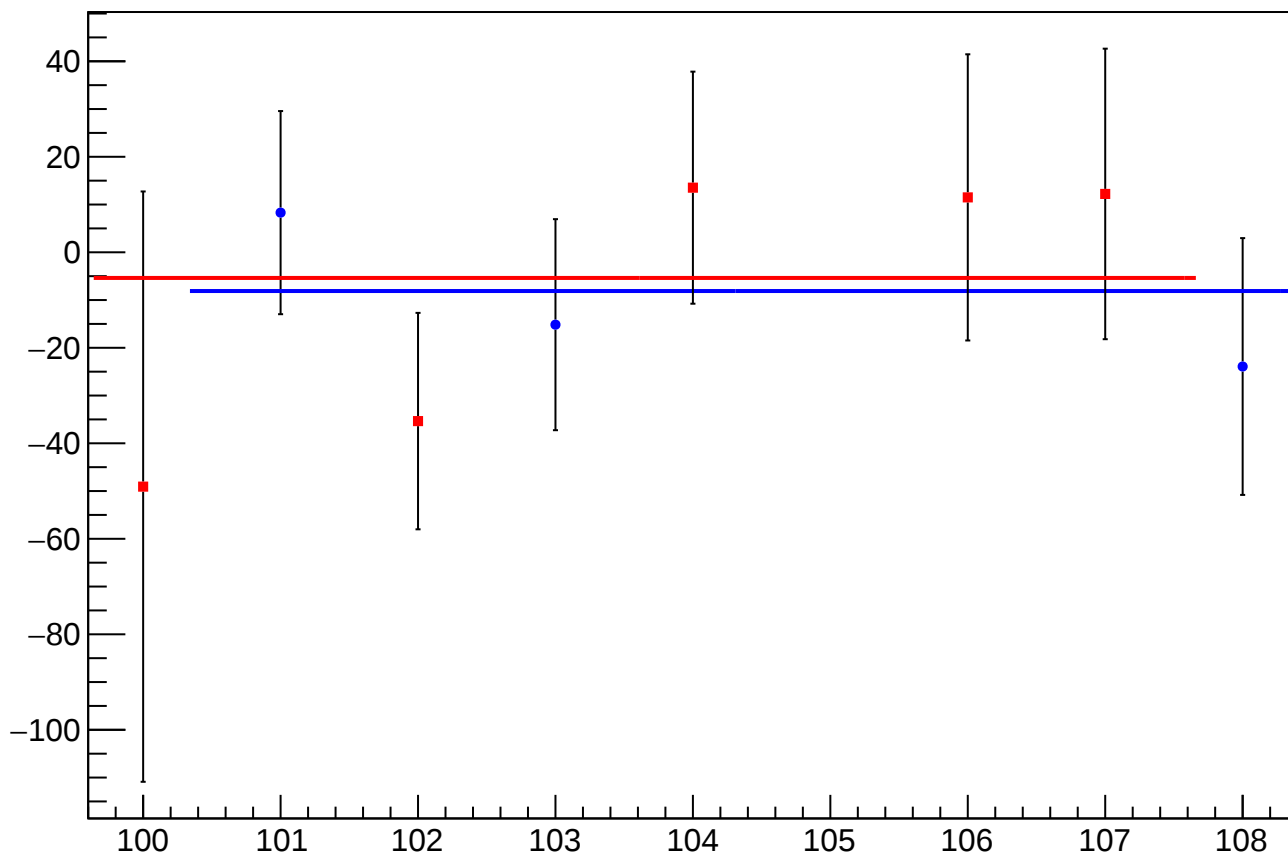
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 241.424 $\pm$ 0.097  $\chi^2$ /NDF: 118406.6/7

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

asym\_bcm\_an\_avg\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: -8.113+/-13.314  $\chi^2/\text{NDF}$ : 1.0/2

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

Right Out: -5.372+/-12.807  $\chi^2/\text{NDF}$ : 3.5/4

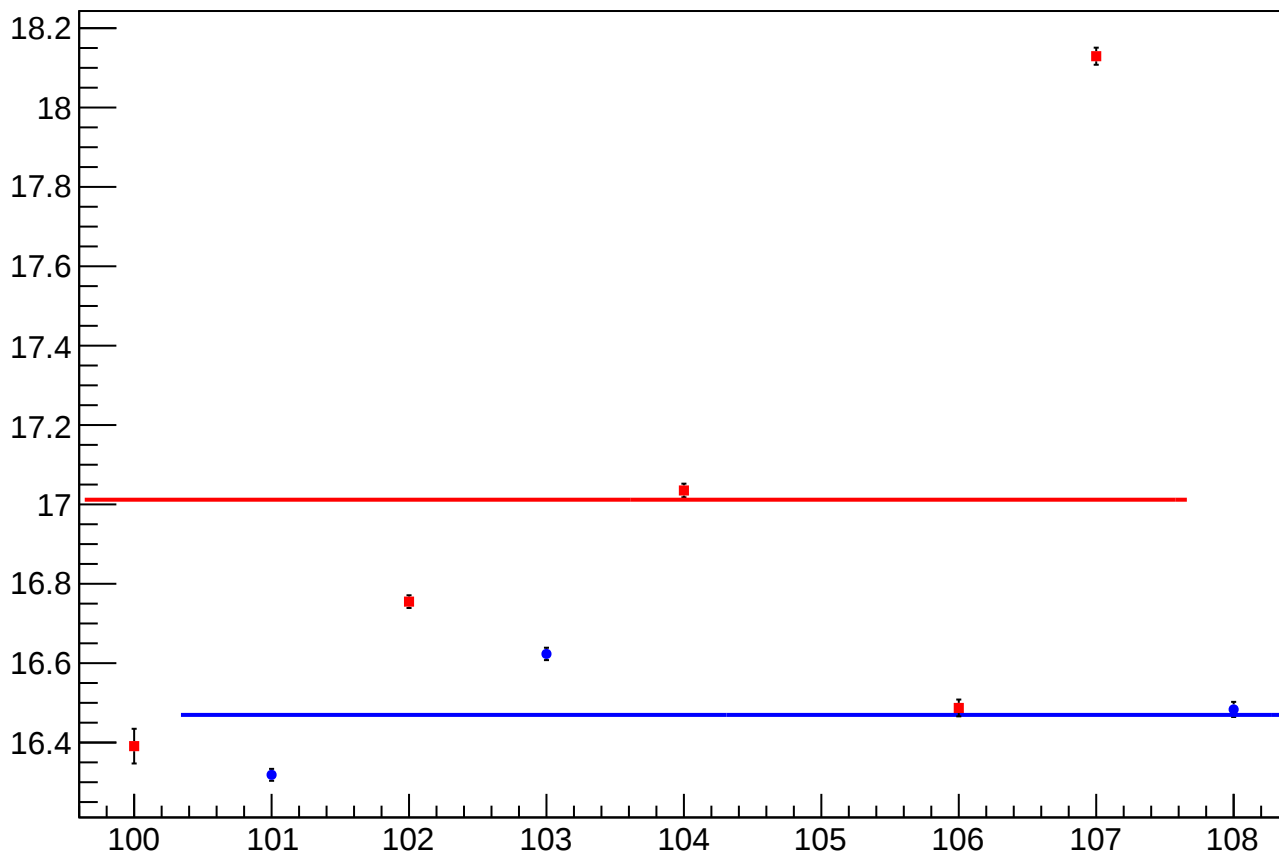
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -6.689+/-9.230  $\chi^2/\text{NDF}$ : 4.6/7

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

asym\_bcm\_an\_avg\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 16.470 $\pm$ 0.009  $\chi^2$ /NDF: 198.0/2

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

Right Out: 17.012 $\pm$ 0.009  $\chi^2$ /NDF: 3772.5/4

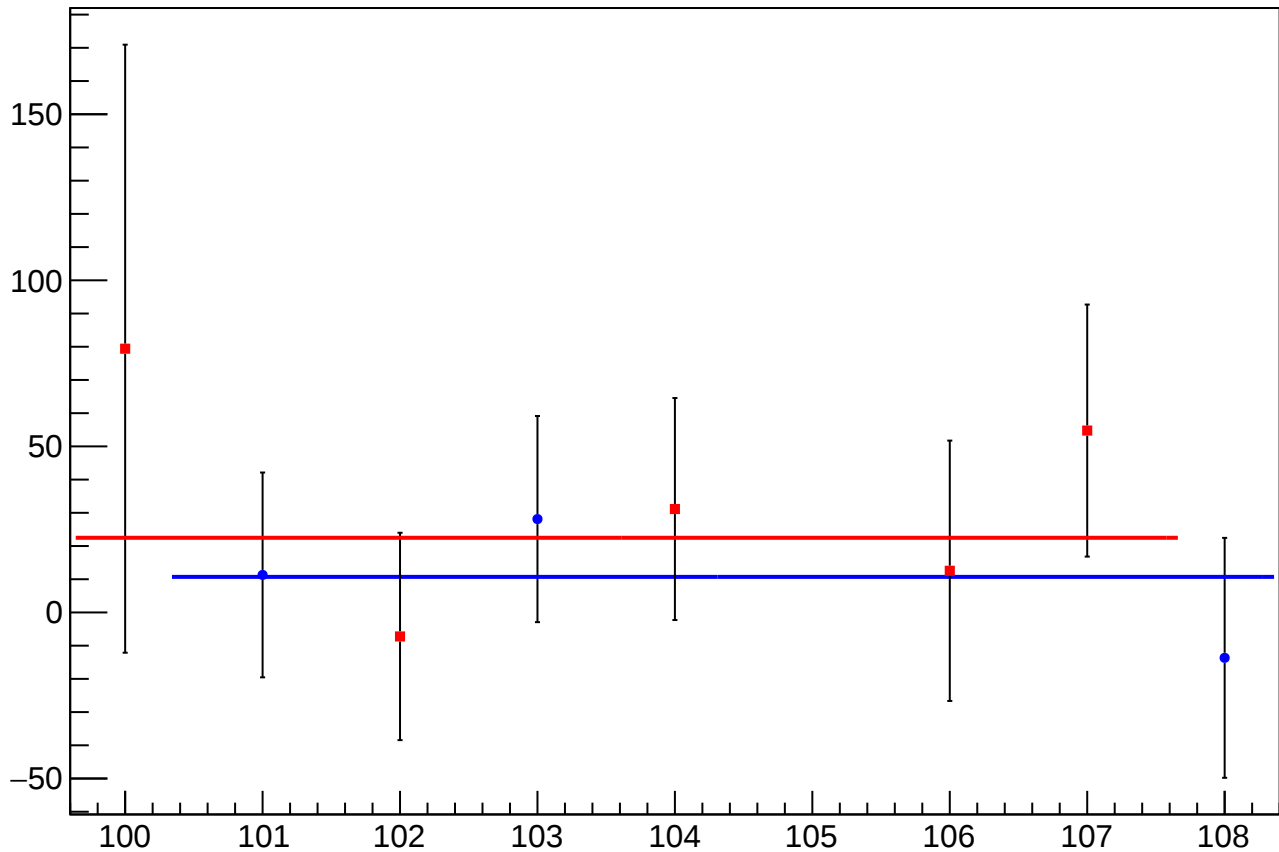
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 16.751 $\pm$ 0.007  $\chi^2$ /NDF: 5693.5/7

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

asym\_bcm\_an\_avg\_bcm\_dg\_us\_agg\_dd\_mean vs Slug



Right In: 10.711+/-18.710  $\chi^2/\text{NDF}$ : 0.8/2

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

Right Out: 22.486+/-17.184  $\chi^2/\text{NDF}$ : 2.1/4

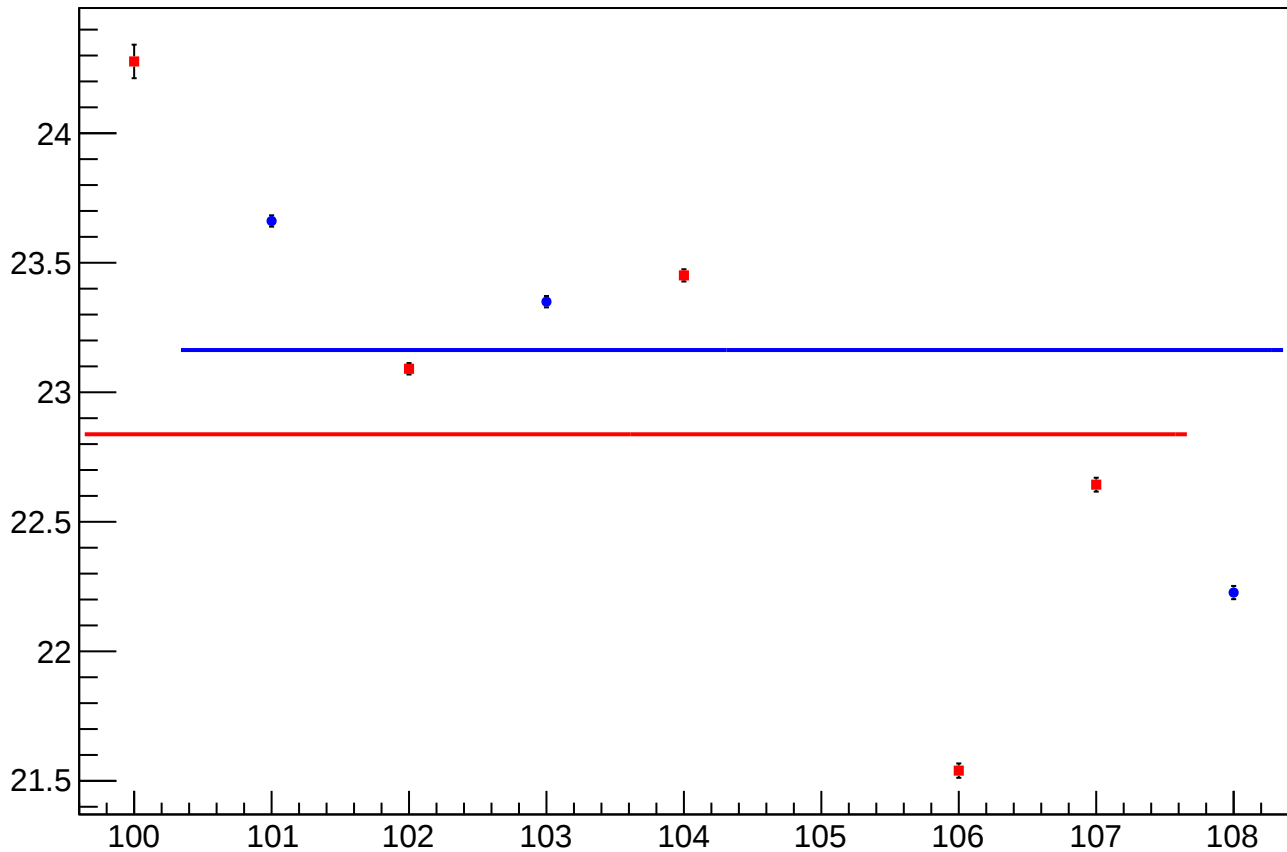
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 17.098+/-12.656  $\chi^2/\text{NDF}$ : 3.1/7

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

asym\_bcm\_an\_avg\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 23.163+/-0.013  $\chi^2/\text{NDF}$ : 1938.2/2

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

Right Out: 22.838+/-0.012  $\chi^2/\text{NDF}$ : 3547.0/4

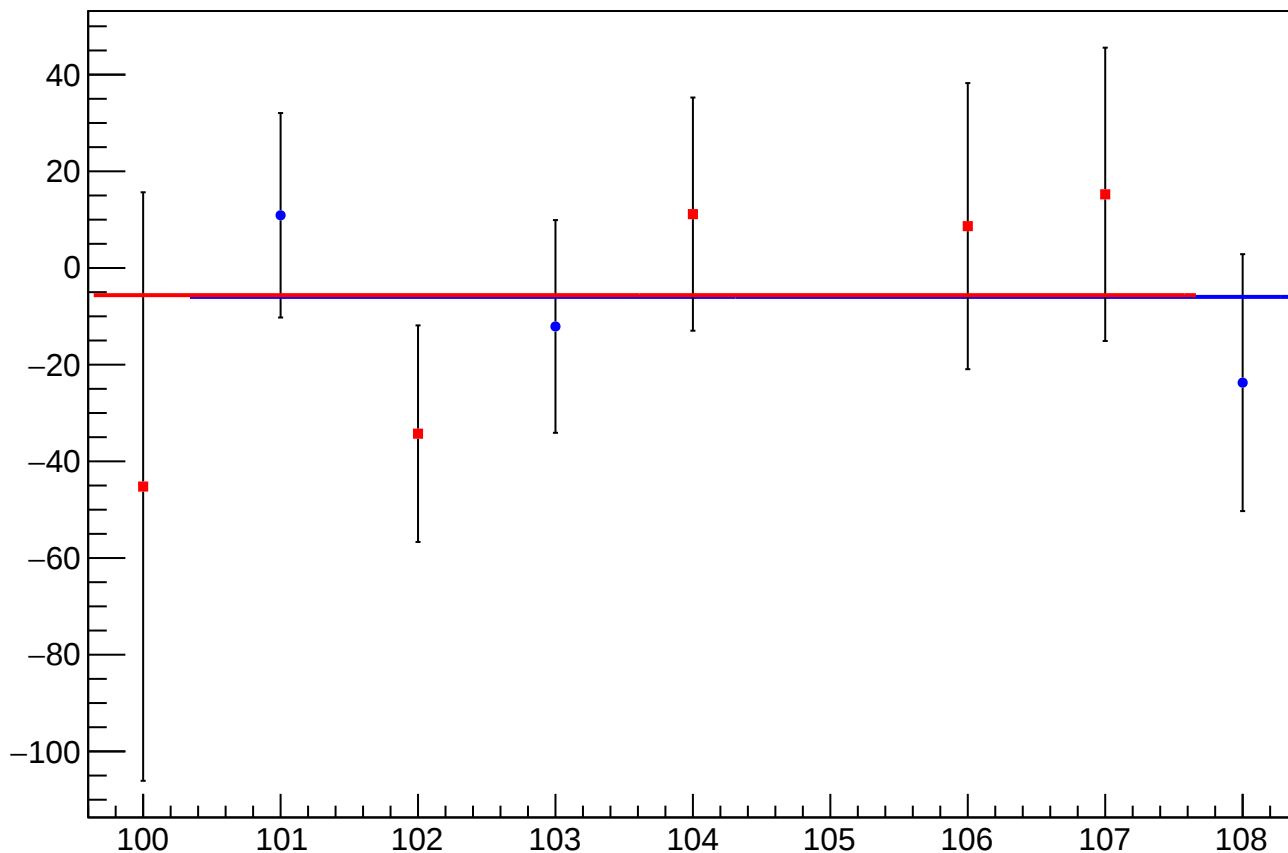
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 22.987+/-0.009  $\chi^2/\text{NDF}$ : 5813.0/7

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

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: -5.978+/-13.225  $\chi^2/\text{NDF}$ : 1.2/2

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

Right Out: -5.619+/-12.690  $\chi^2/\text{NDF}$ : 3.2/4

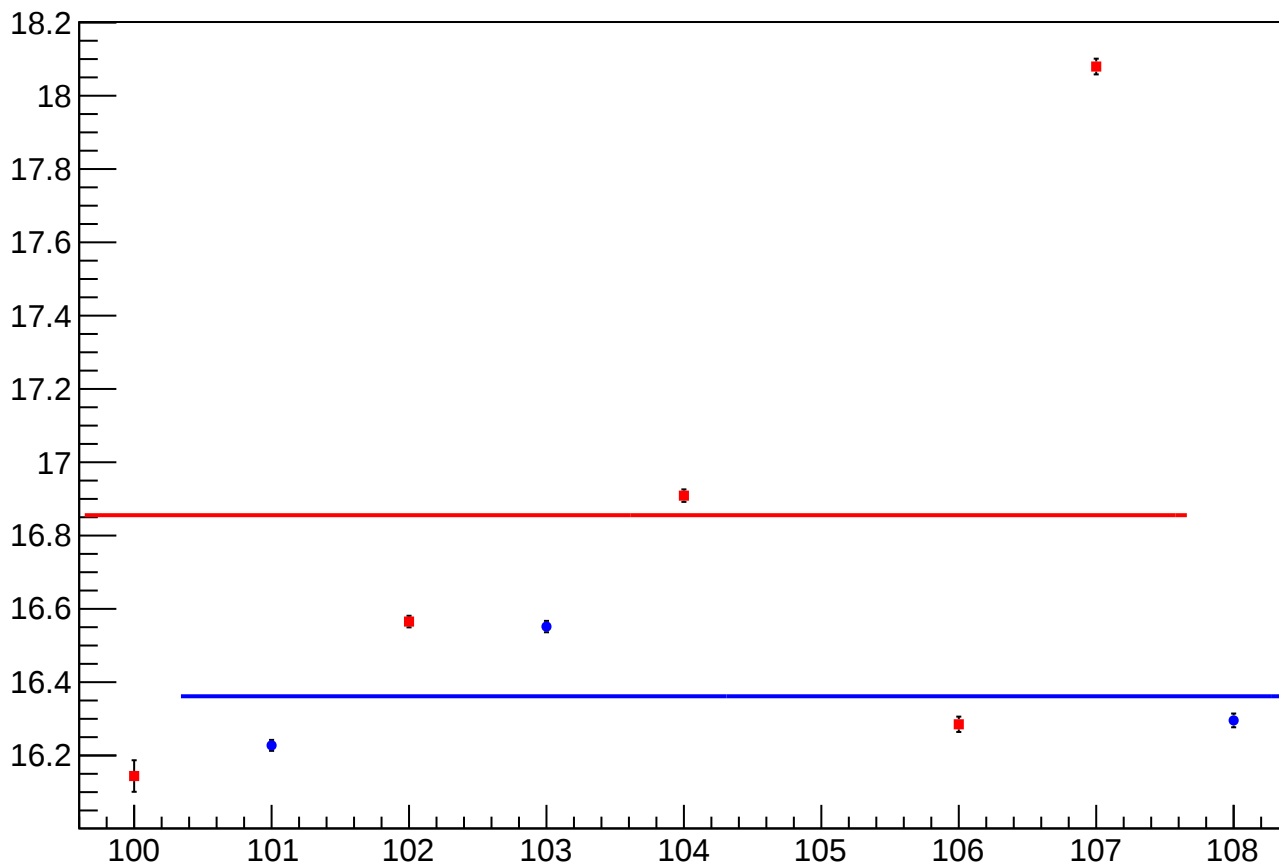
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -5.791+/-9.157  $\chi^2/\text{NDF}$ : 4.4/7

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

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 16.362 $\pm$ 0.009  $\chi^2$ /NDF: 241.9/2

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

Right Out: 16.856 $\pm$ 0.009  $\chi^2$ /NDF: 4618.0/4

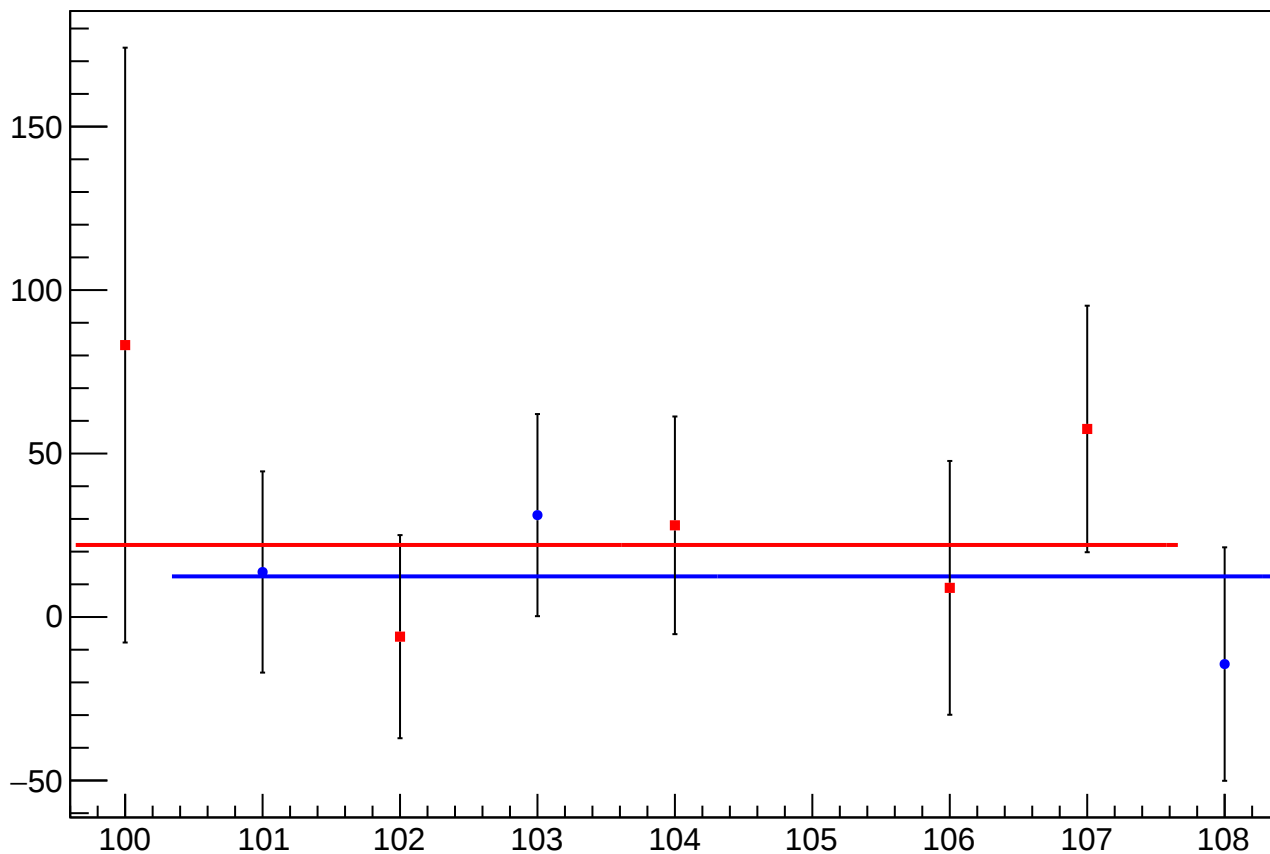
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 16.619 $\pm$ 0.006  $\chi^2$ /NDF: 6312.9/7

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

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_us\_agg\_dd\_mean vs Slug



Right In: 12.427 $\pm$ 18.612  $\chi^2$ /NDF: 0.9/2

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

Right Out: 22.038 $\pm$ 17.083  $\chi^2$ /NDF: 2.3/4

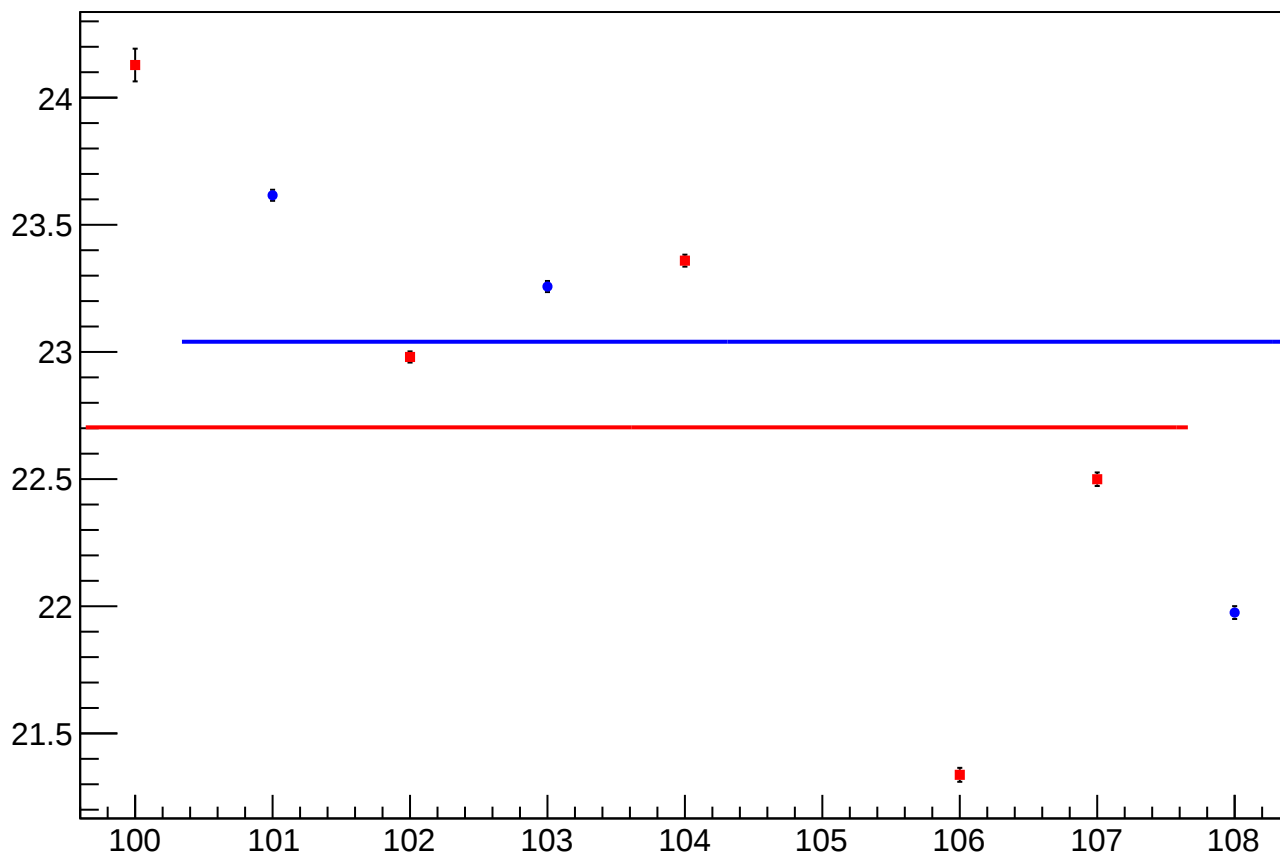
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 17.644 $\pm$ 12.585  $\chi^2$ /NDF: 3.4/7

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

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 23.040 $\pm$ 0.013  $\chi^2$ /NDF: 2578.3/2

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

Right Out: 22.704 $\pm$ 0.012  $\chi^2$ /NDF: 3961.6/4

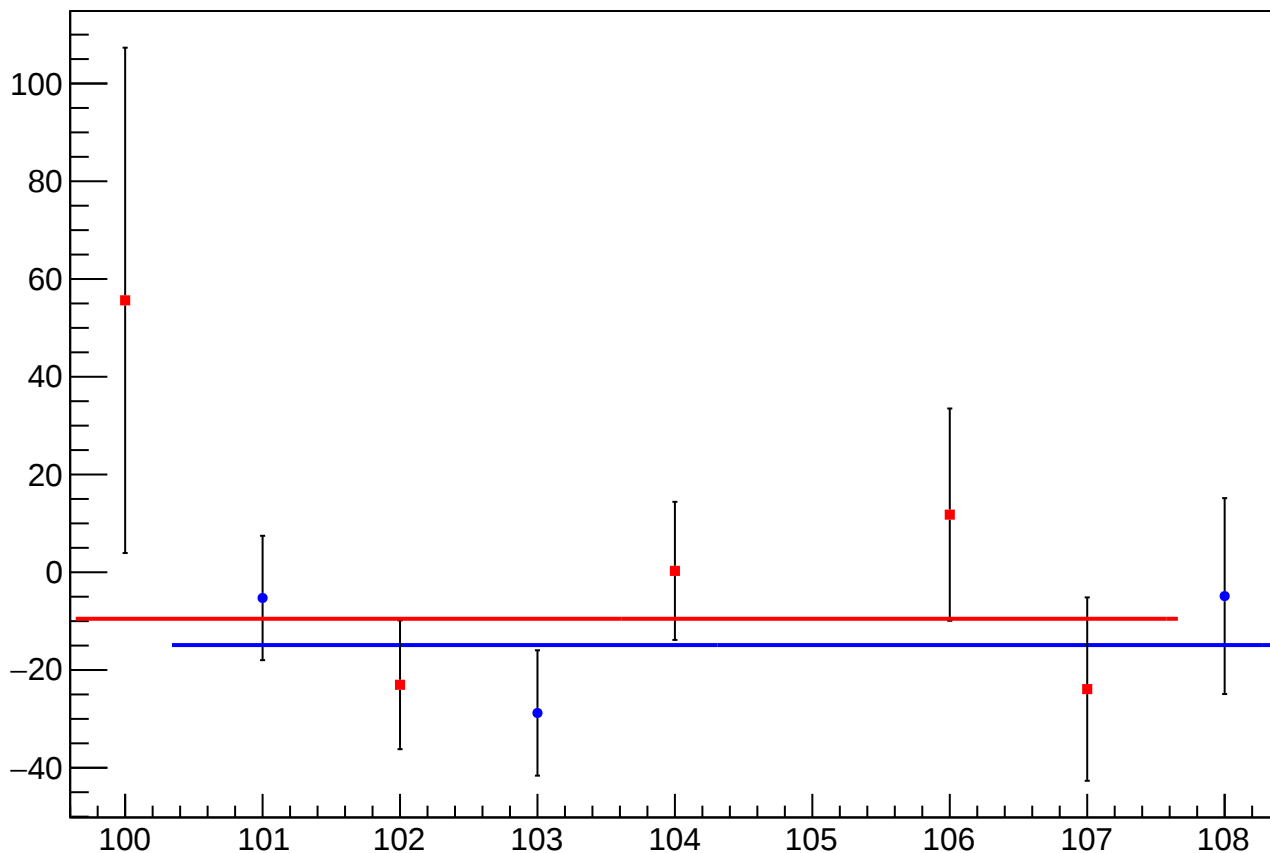
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 22.857 $\pm$ 0.009  $\chi^2$ /NDF: 6895.0/7

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

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



Right In: -14.896 $\pm$ 8.234  $\chi^2$ /NDF: 2.0/2

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

Right Out: -9.515 $\pm$ 7.880  $\chi^2$ /NDF: 4.7/4

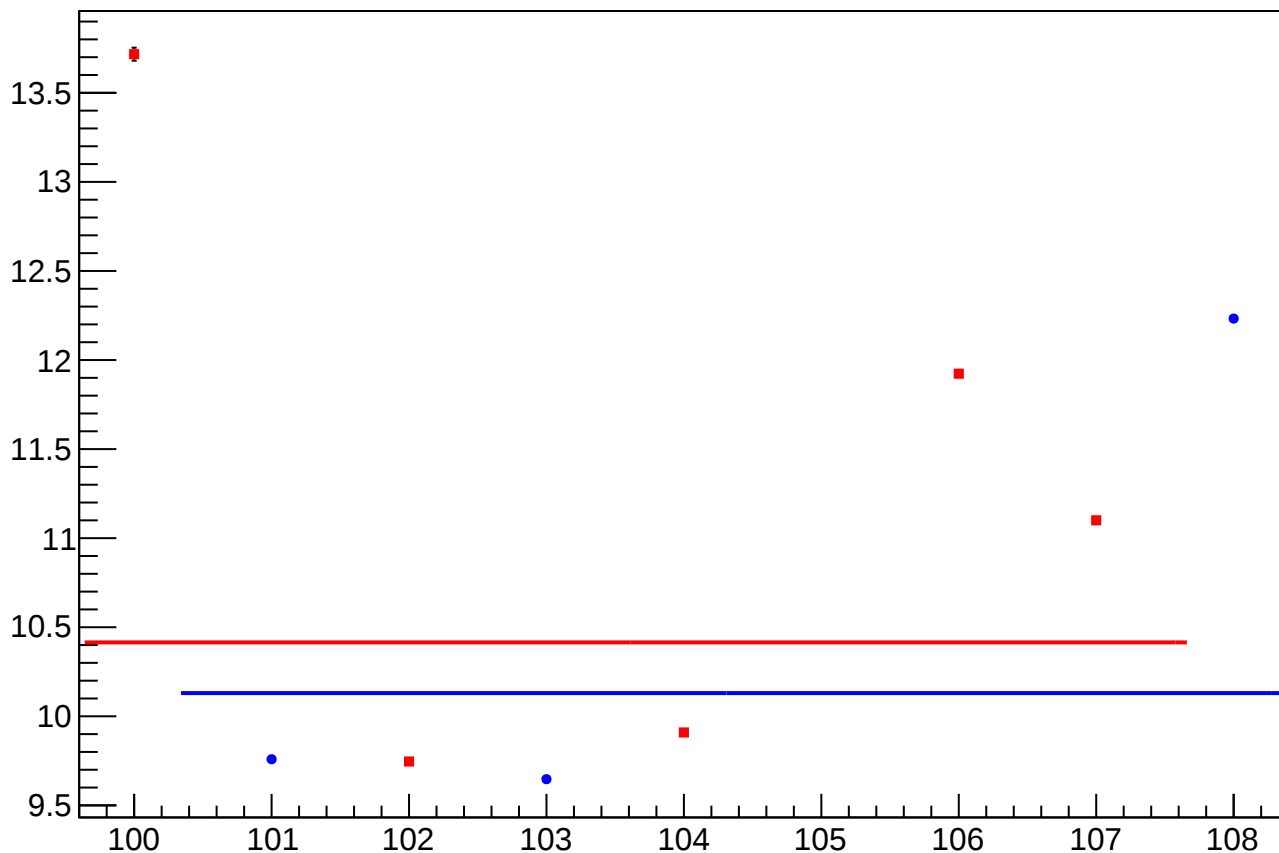
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -12.087 $\pm$ 5.693  $\chi^2$ /NDF: 6.9/7

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

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



Right In: 10.130 $\pm$ 0.006  $\chi^2$ /NDF: 26550.6/2

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

Right Out: 10.415 $\pm$ 0.006  $\chi^2$ /NDF: 28190.1/4

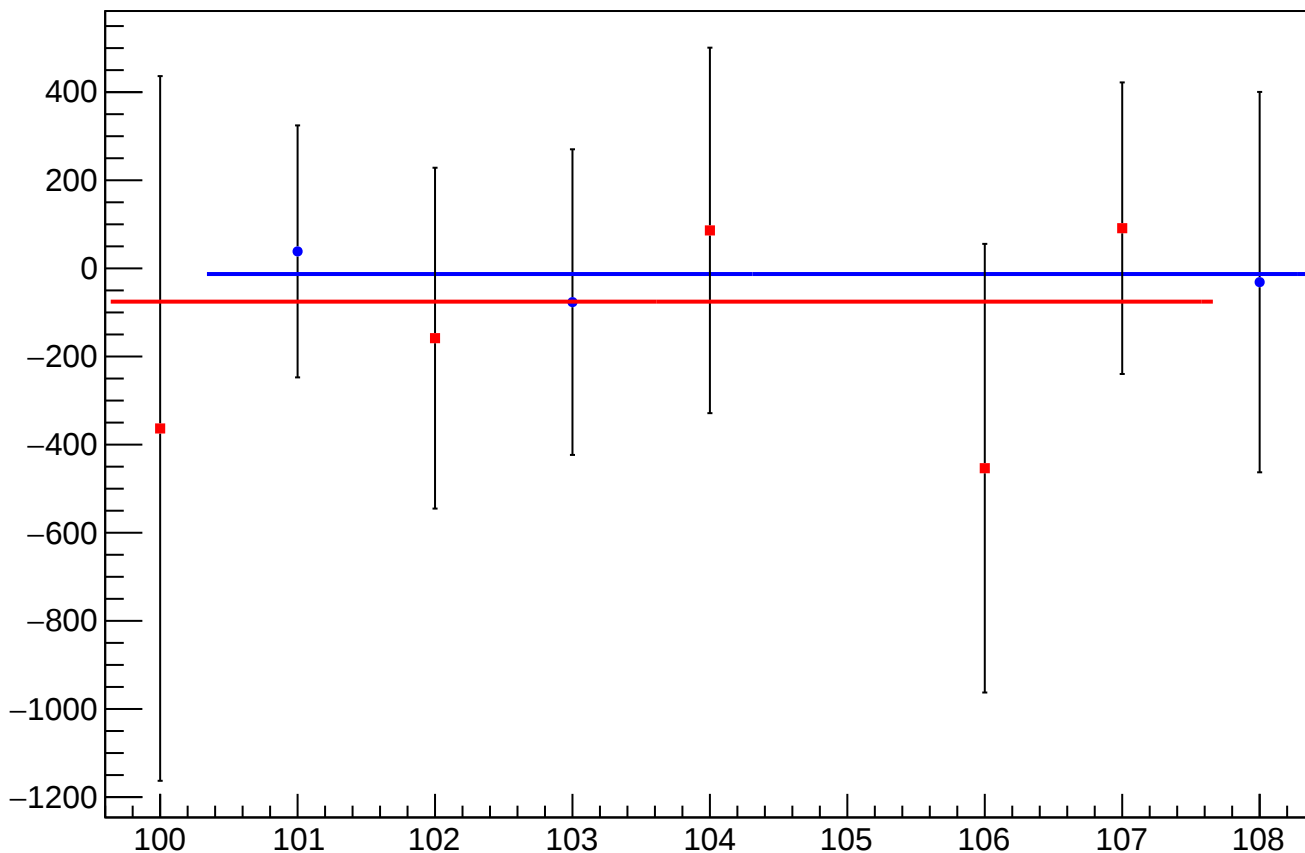
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 10.279 $\pm$ 0.004  $\chi^2$ /NDF: 55986.5/7

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

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



Right In:  $-12.807 \pm 196.473$   $\chi^2/\text{NDF}$ : 0.1/2

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

Right Out:  $-75.472 \pm 192.267$   $\chi^2/\text{NDF}$ : 1.1/4

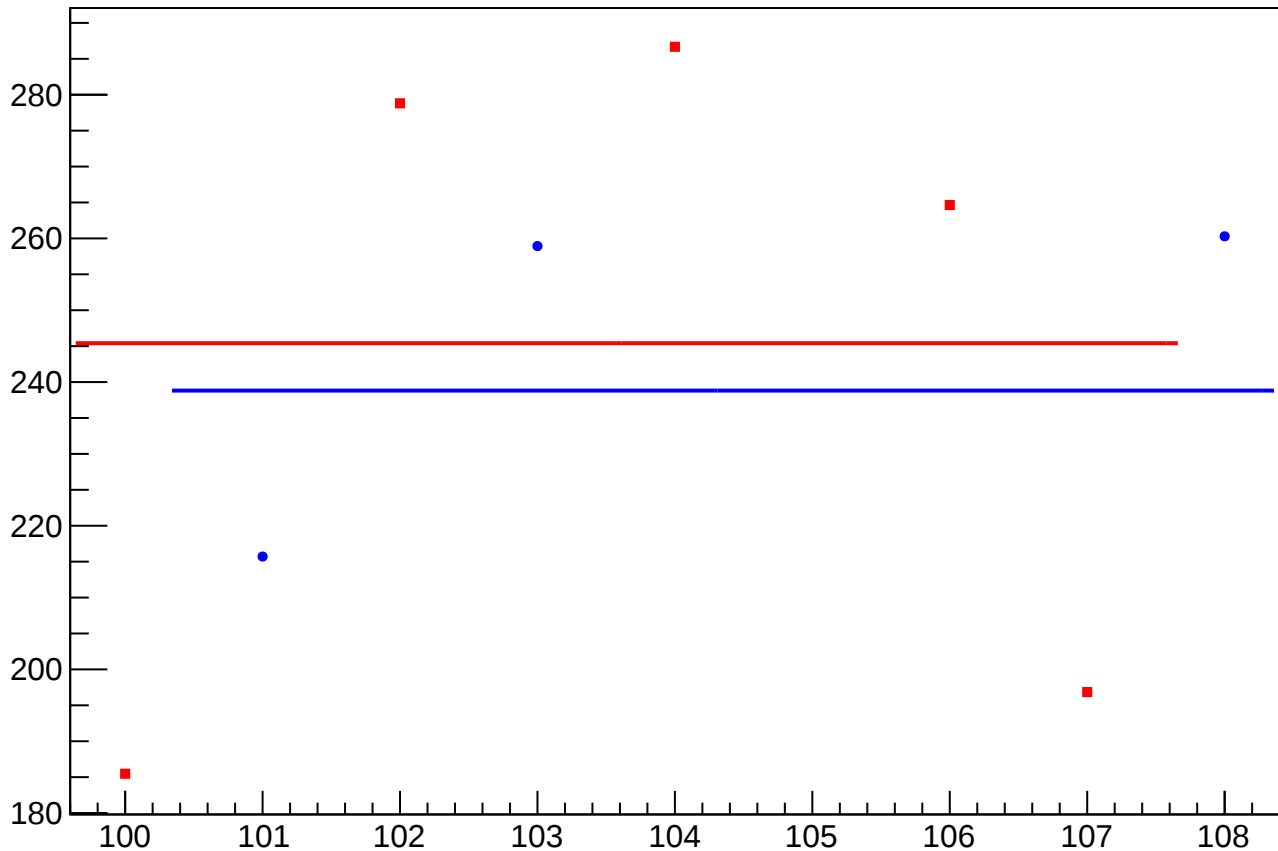
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-44.818 \pm 137.416$   $\chi^2/\text{NDF}$ : 1.3/7

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

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



Right In: 238.813 $\pm$ 0.139  $\chi^2$ /NDF: 24731.8/2

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

Right Out: 245.410 $\pm$ 0.136  $\chi^2$ /NDF: 91873.1/4

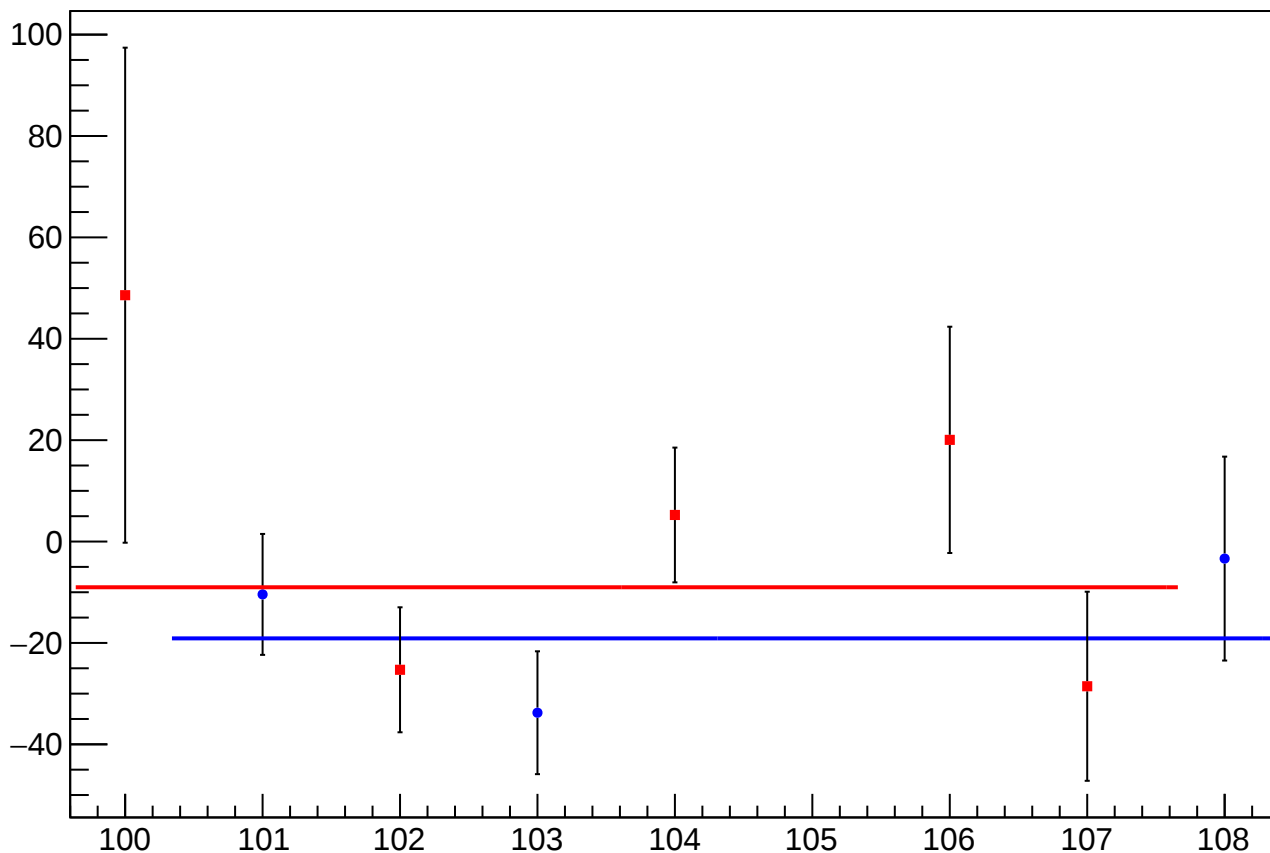
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 242.183 $\pm$ 0.097  $\chi^2$ /NDF: 117756.8/7

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

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



Right In: -19.101 $\pm$ 7.830  $\chi^2$ /NDF: 2.6/2

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

Right Out: -9.018 $\pm$ 7.550  $\chi^2$ /NDF: 7.1/4

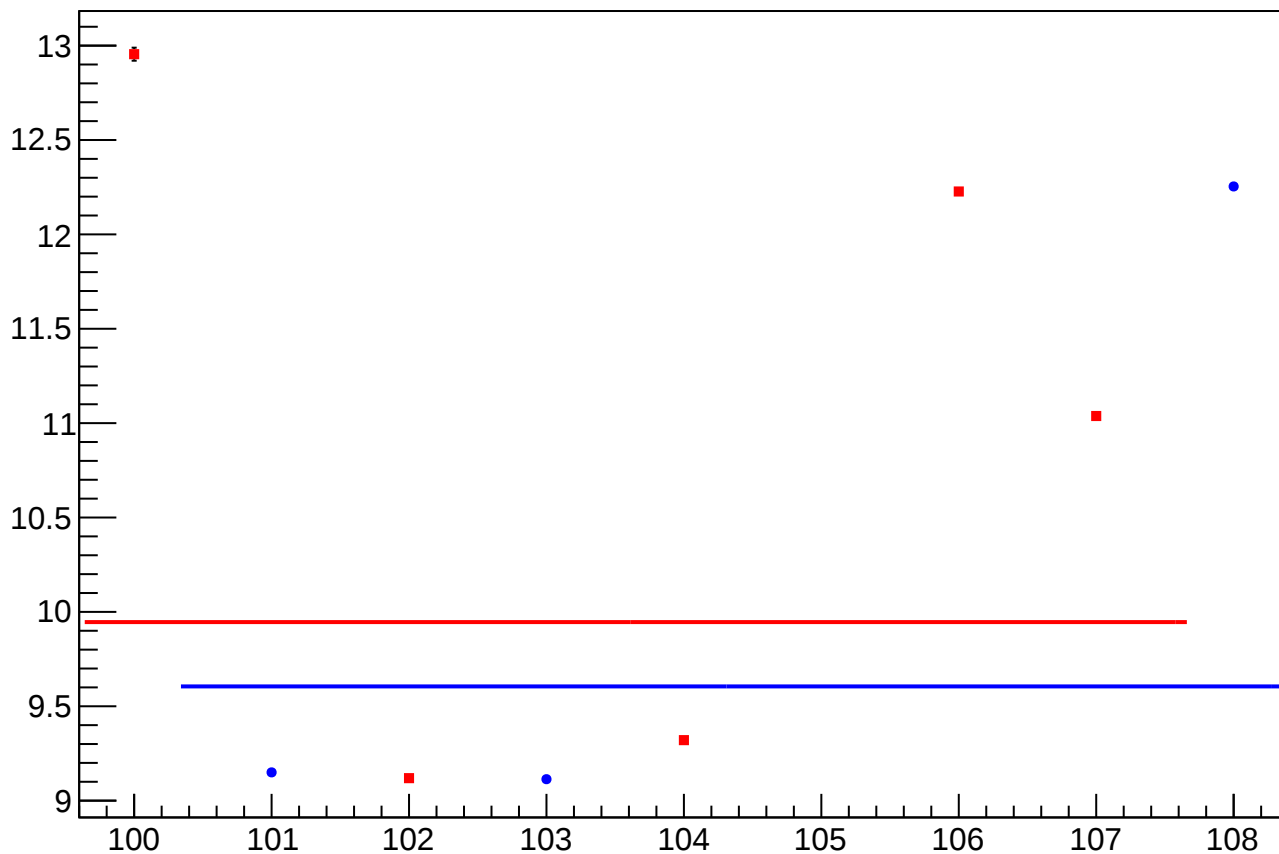
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -13.876 $\pm$ 5.435  $\chi^2$ /NDF: 10.5/7

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

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



Right In: 9.605 $\pm$ 0.006  $\chi^2$ /NDF: 40894.6/2

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

Right Out: 9.946 $\pm$ 0.005  $\chi^2$ /NDF: 48766.0/4

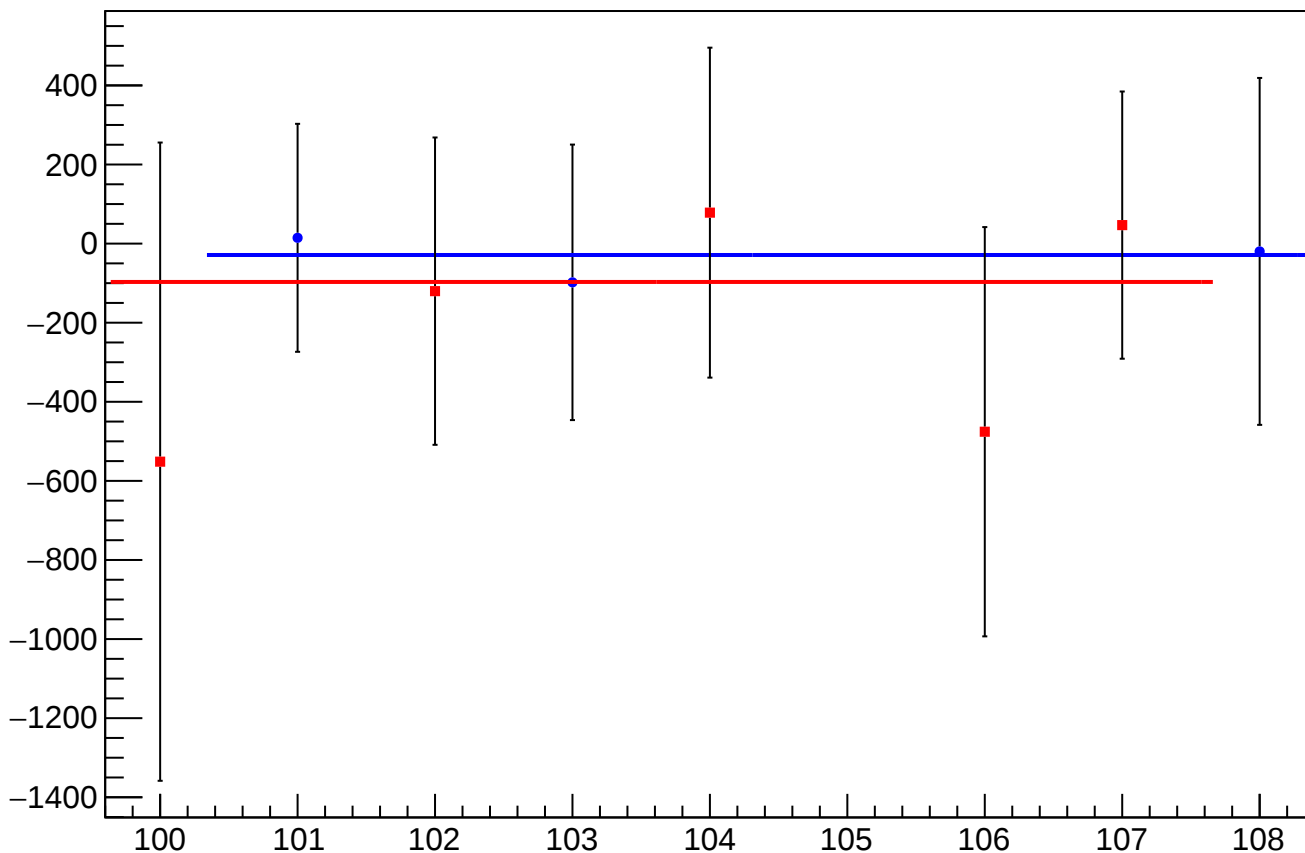
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 9.782 $\pm$ 0.004  $\chi^2$ /NDF: 91623.9/7

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

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



Right In: -28.794 $\pm$ 198.125  $\chi^2$ /NDF: 0.1/2

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

Right Out: -96.970 $\pm$ 194.621  $\chi^2$ /NDF: 1.2/4

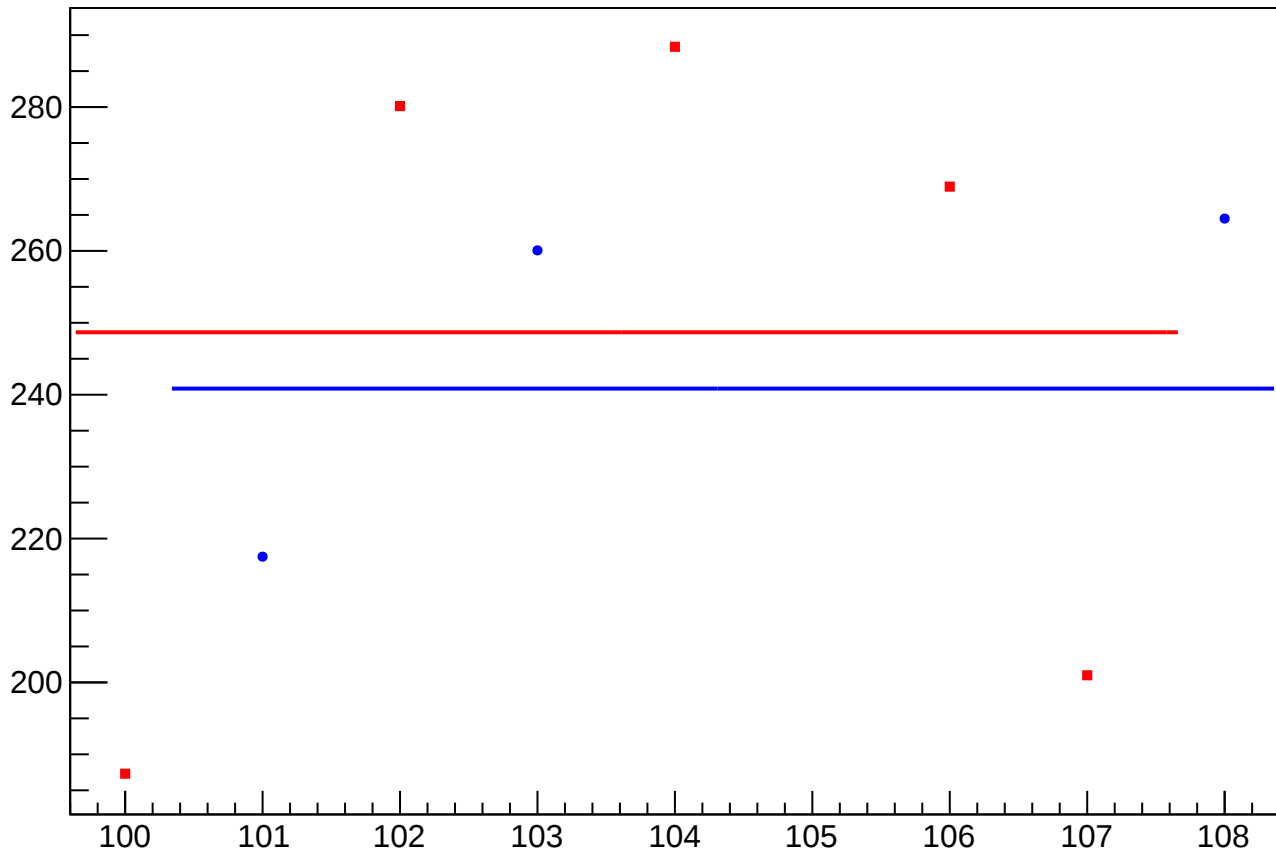
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -63.490 $\pm$ 138.840  $\chi^2$ /NDF: 1.3/7

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

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



Right In: 240.853+/-0.140  $\chi^2/\text{NDF}$ : 25041.9/2

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

Right Out: 248.681+/-0.138  $\chi^2/\text{NDF}$ : 85697.8/4

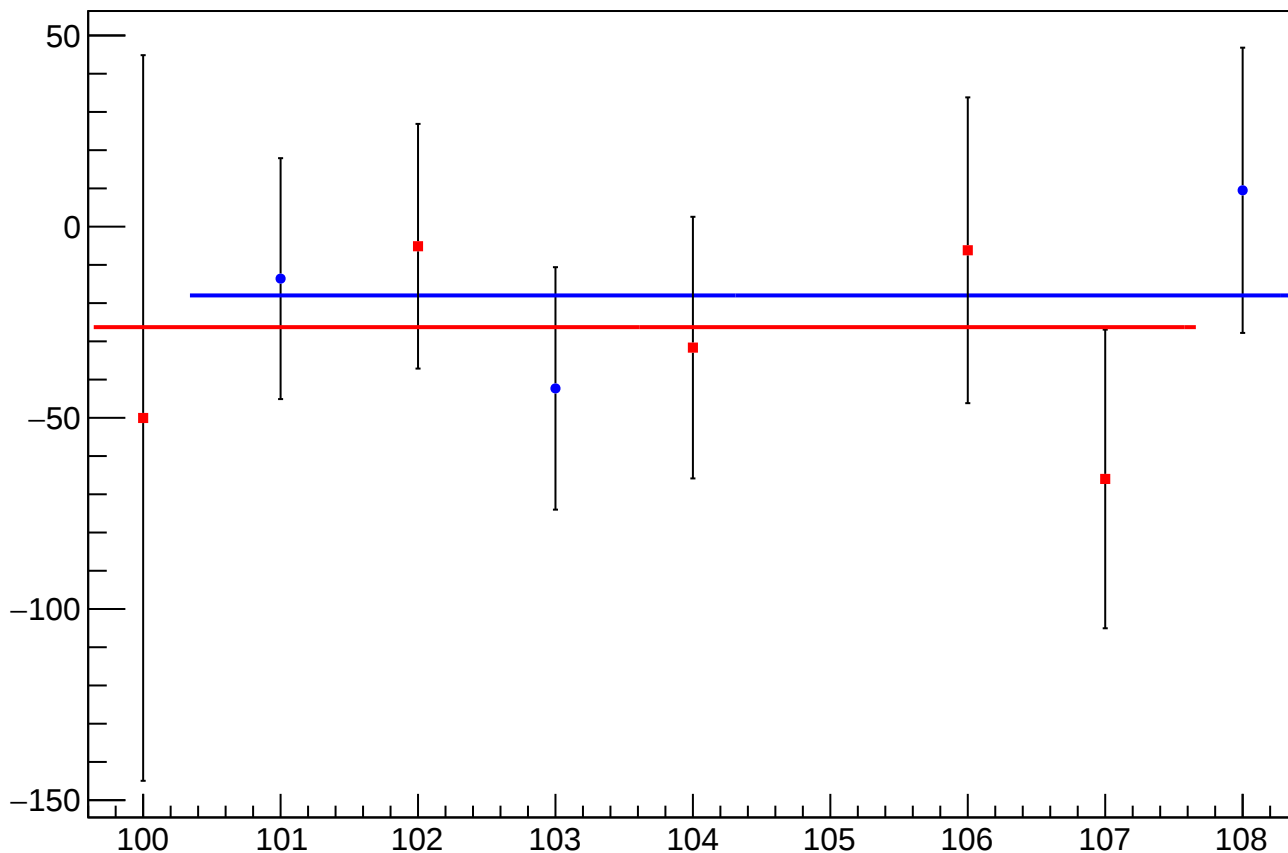
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 244.837+/-0.098  $\chi^2/\text{NDF}$ : 112328.6/7

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

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



Right In: -17.990 $\pm$ 19.171  $\chi^2$ /NDF: 1.2/2

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

Right Out: -26.283 $\pm$ 17.615  $\chi^2$ /NDF: 1.8/4

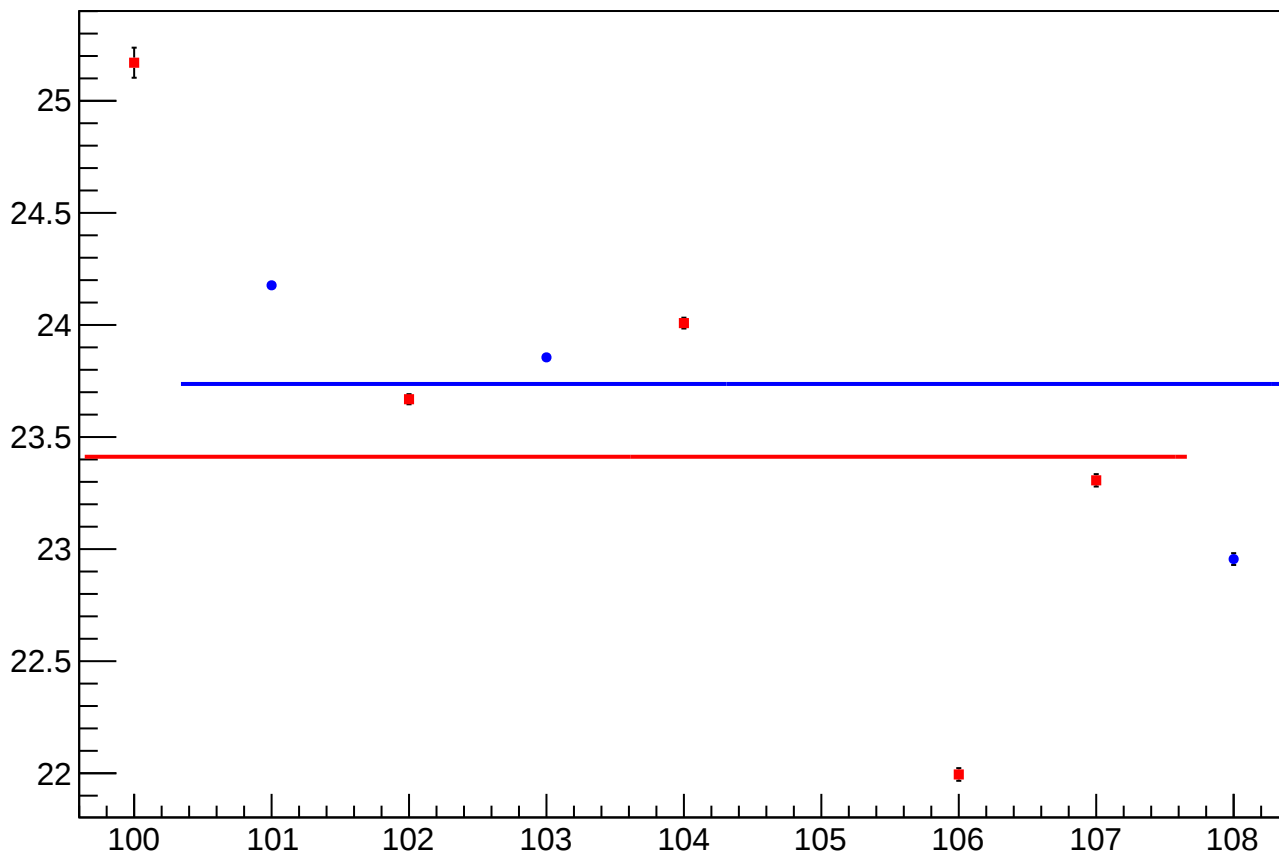
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -22.487 $\pm$ 12.971  $\chi^2$ /NDF: 3.1/7

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

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



Right In: 23.737 $\pm$ 0.014  $\chi^2$ /NDF: 1295.5/2

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

Right Out: 23.412 $\pm$ 0.012  $\chi^2$ /NDF: 3950.0/4

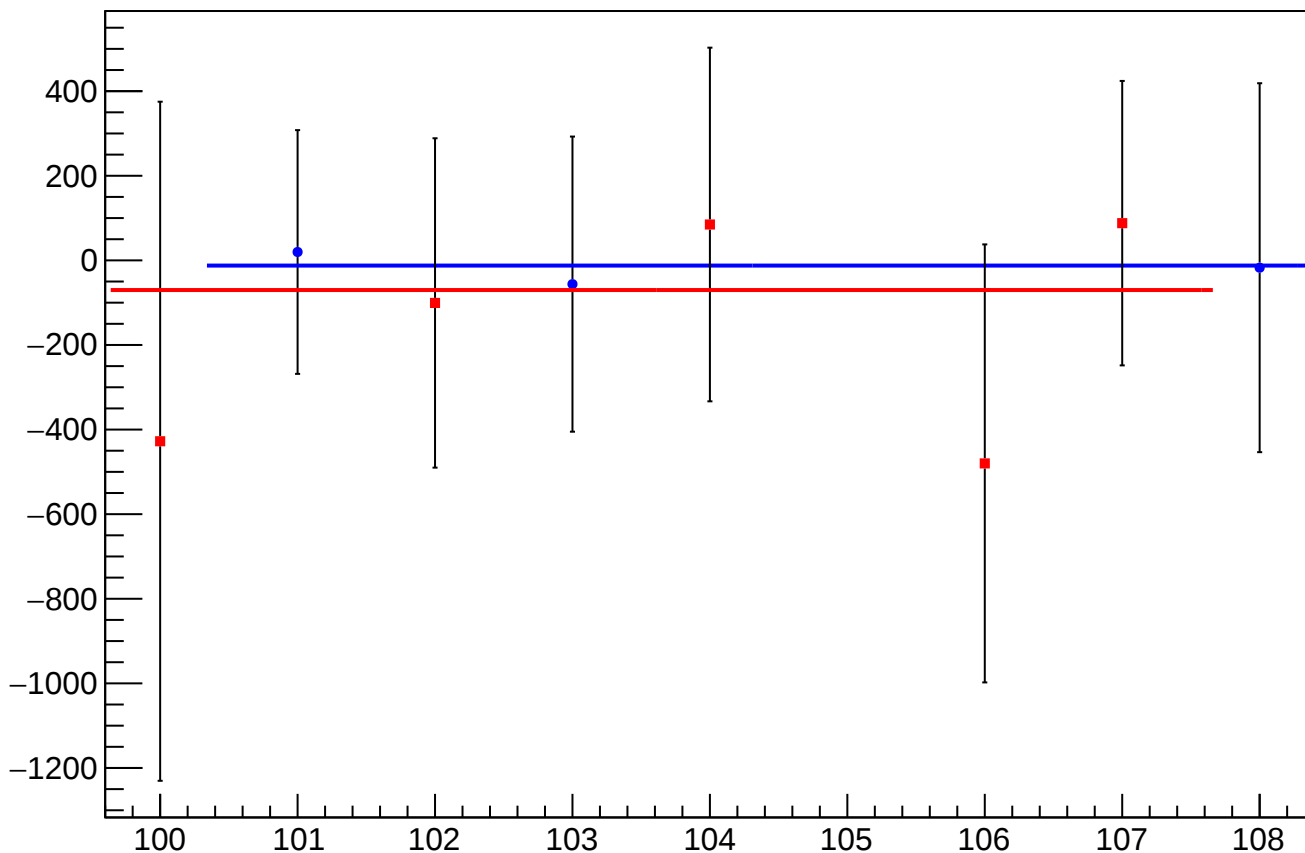
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 23.561 $\pm$ 0.009  $\chi^2$ /NDF: 5556.7/7

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

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



Right In: -12.311+/-197.943  $\chi^2/\text{NDF}$ : 0.0/2

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

Right Out: -70.138+/-194.451  $\chi^2/\text{NDF}$ : 1.2/4

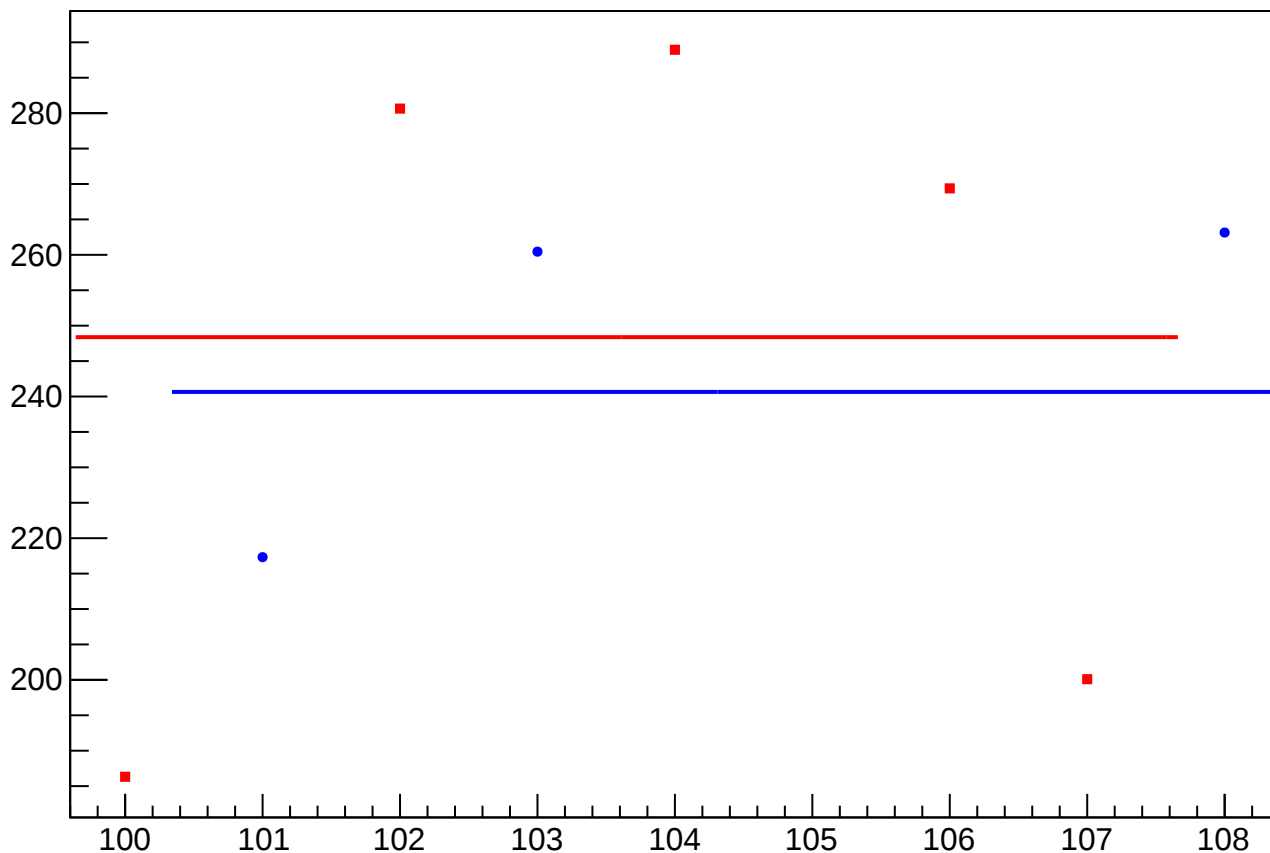
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -41.739+/-138.716  $\chi^2/\text{NDF}$ : 1.3/7

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

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



Right In: 240.648 $\pm$ 0.140  $\chi^2$ /NDF: 24879.4/2

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

Right Out: 248.377 $\pm$ 0.137  $\chi^2$ /NDF: 89057.3/4

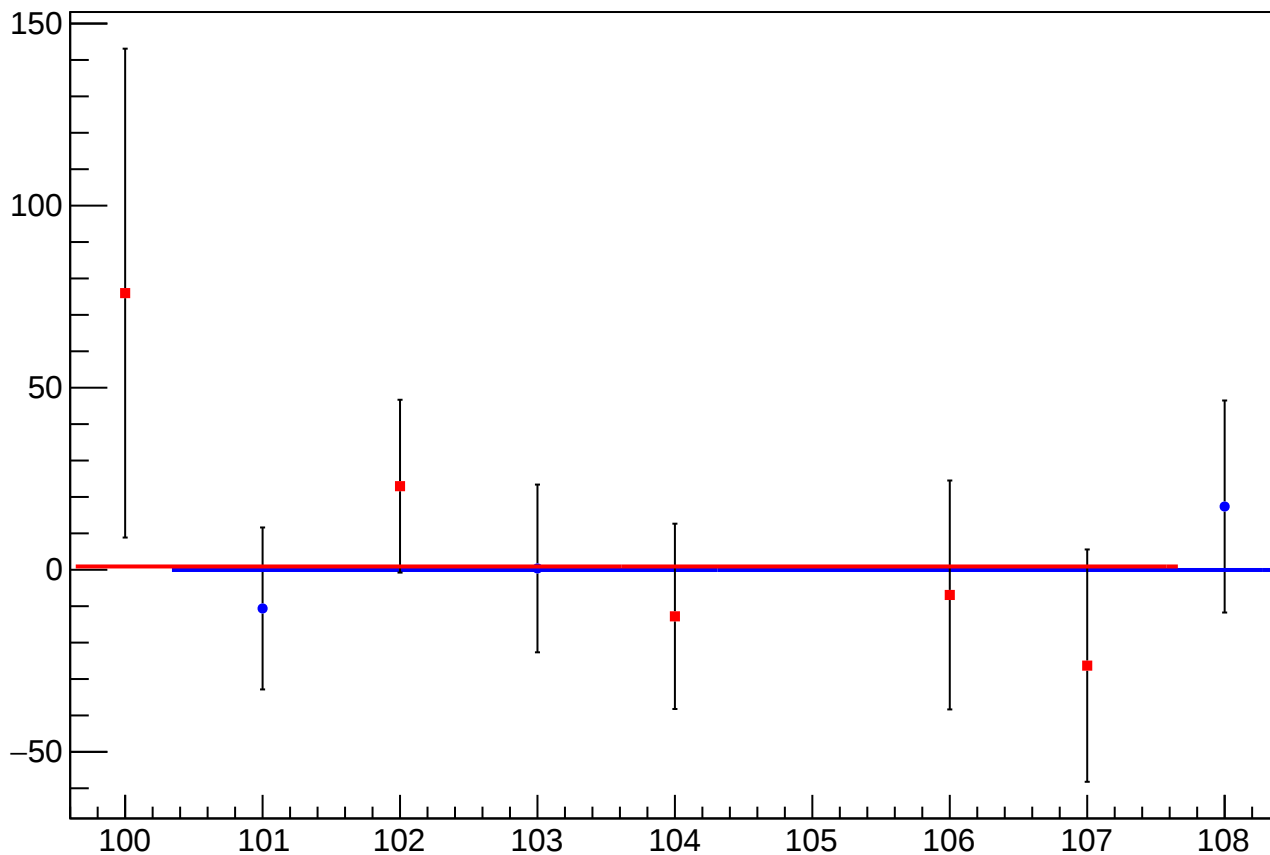
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 244.581 $\pm$ 0.098  $\chi^2$ /NDF: 115488.8/7

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

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



Right In: -0.056 $\pm$ 14.021  $\chi^2$ /NDF: 0.6/2

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

Right Out: 0.908 $\pm$ 13.438  $\chi^2$ /NDF: 3.2/4

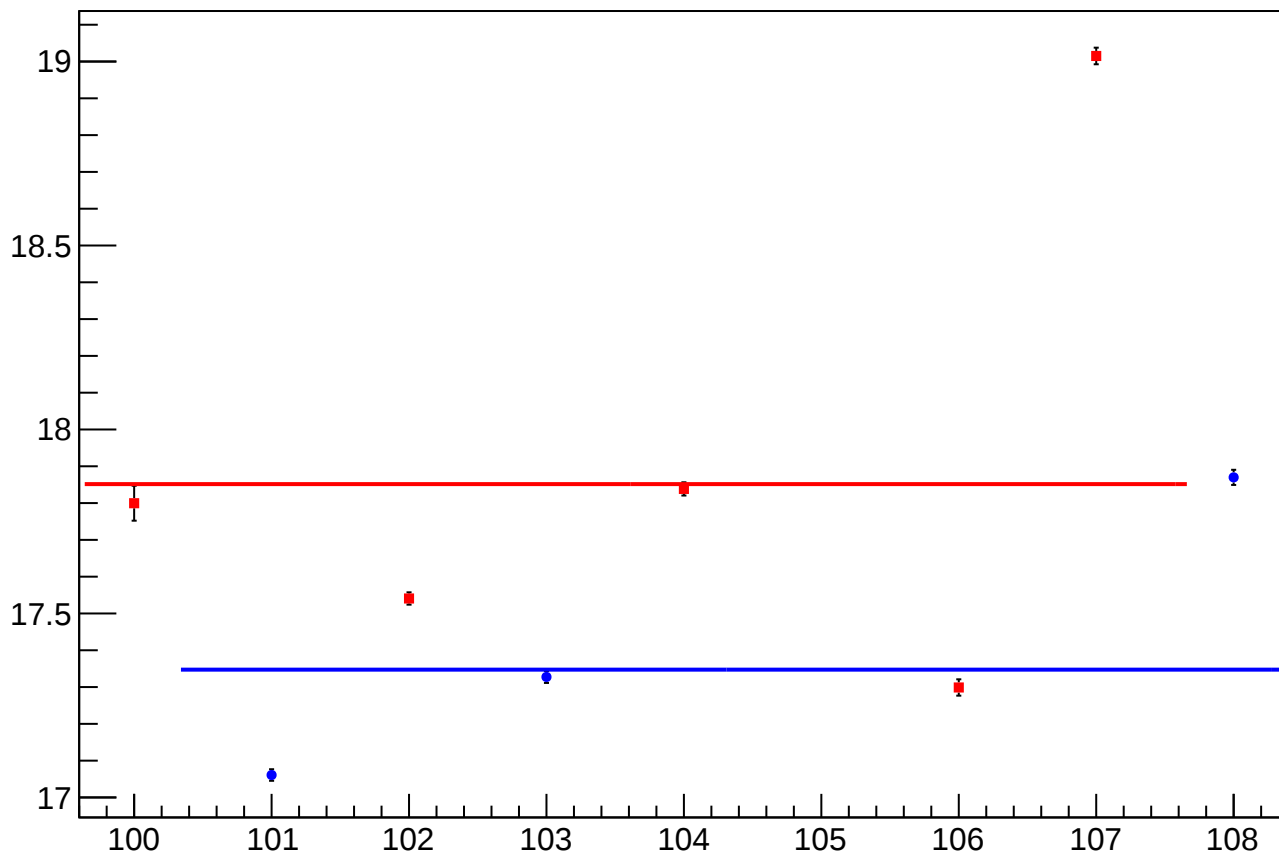
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.446 $\pm$ 9.702  $\chi^2$ /NDF: 3.8/7

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

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



Right In: 17.347 $\pm$ 0.010  $\chi^2$ /NDF: 977.4/2

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

Right Out: 17.852 $\pm$ 0.010  $\chi^2$ /NDF: 3623.8/4

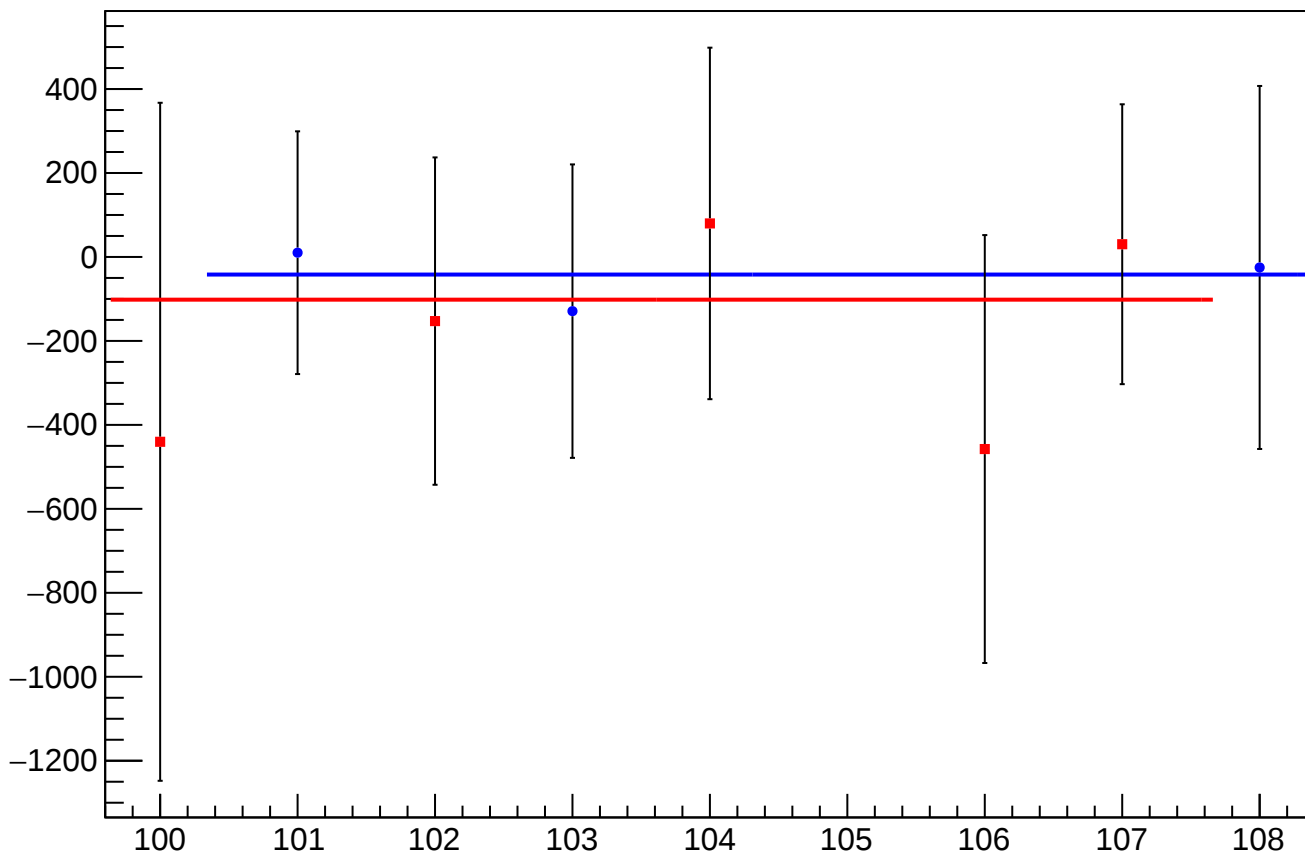
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 17.610 $\pm$ 0.007  $\chi^2$ /NDF: 5949.4/7

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

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



Right In: -41.915 $\pm$ 198.019  $\chi^2$ /NDF: 0.1/2

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

Right Out: -101.735 $\pm$ 193.642  $\chi^2$ /NDF: 1.0/4

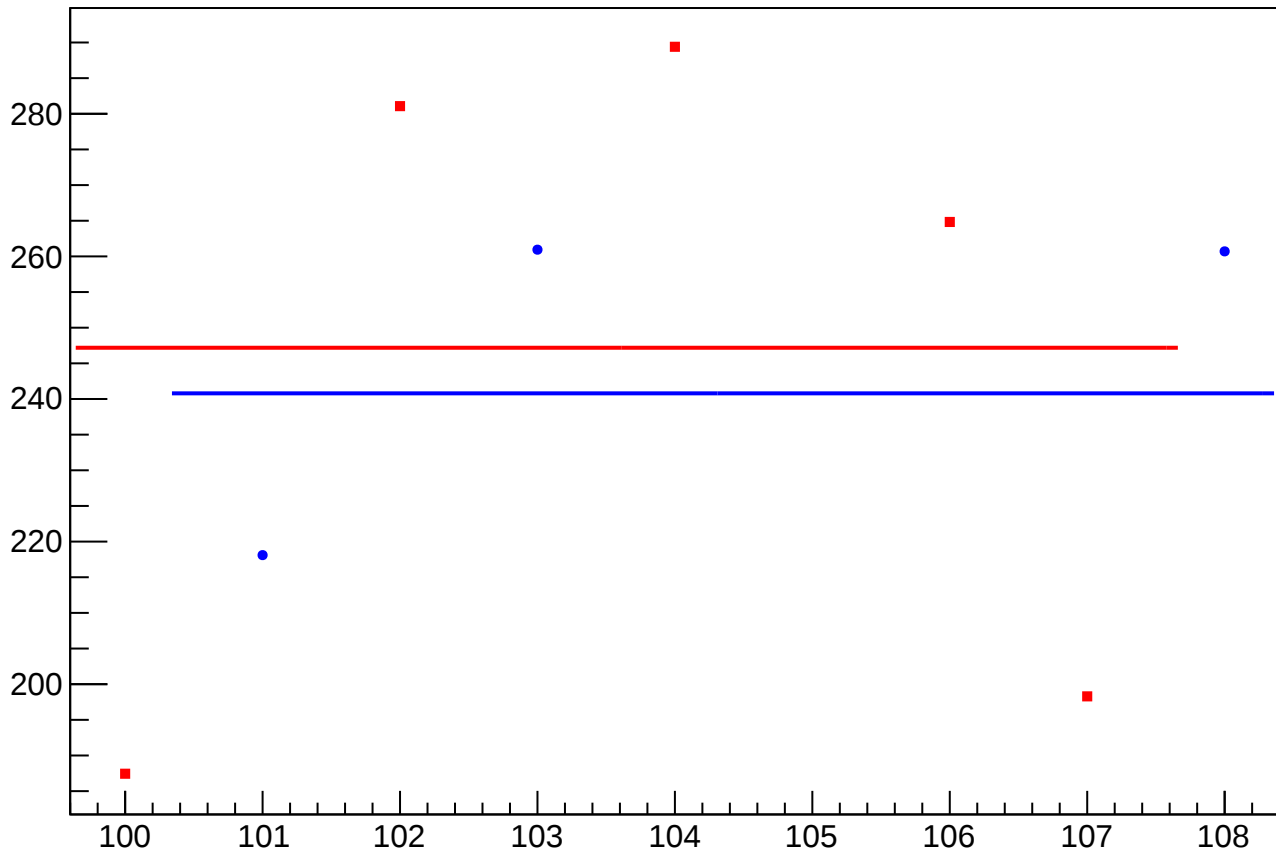
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -72.493 $\pm$ 138.447  $\chi^2$ /NDF: 1.2/7

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

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



Right In: 240.792 $\pm$ 0.140  $\chi^2$ /NDF: 23211.5/2

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

Right Out: 247.188 $\pm$ 0.137  $\chi^2$ /NDF: 91821.2/4

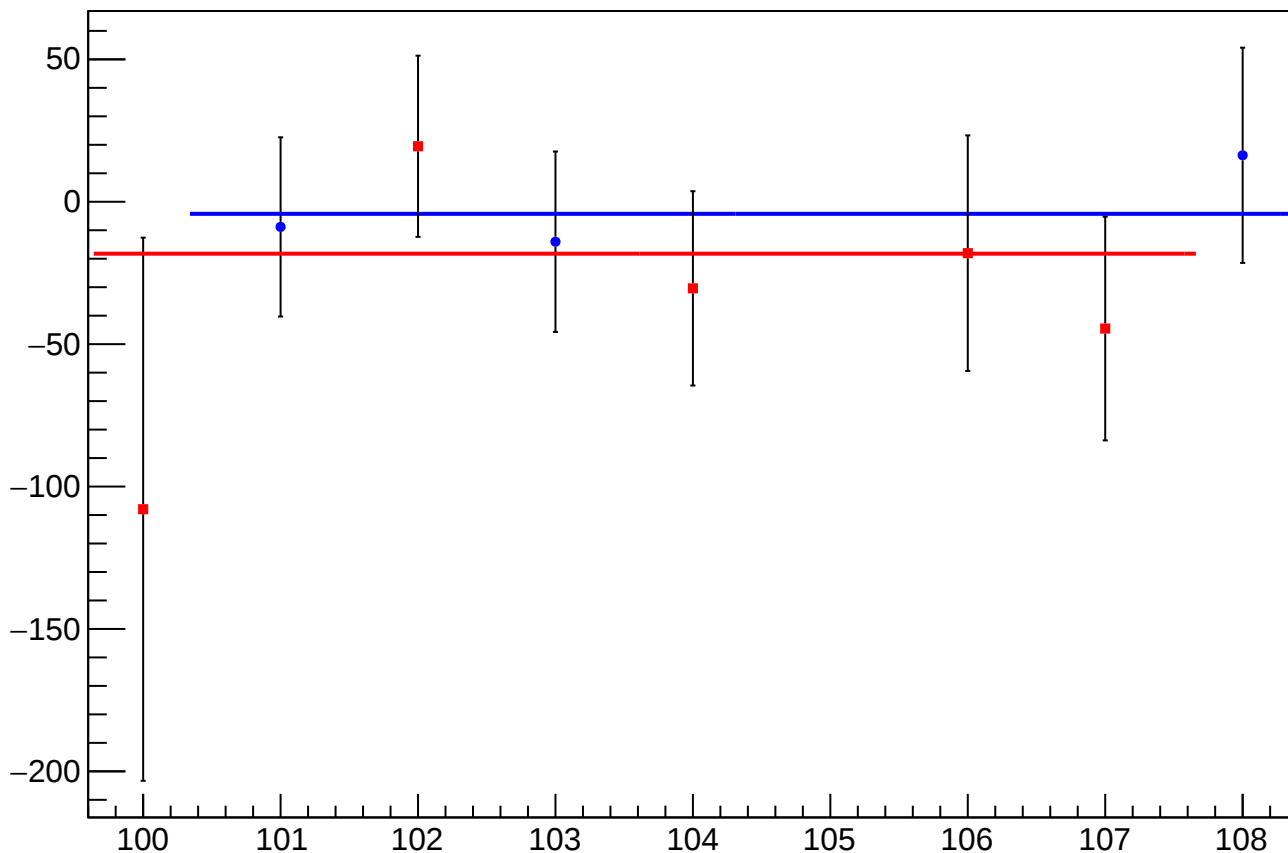
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 244.061 $\pm$ 0.098  $\chi^2$ /NDF: 116099.2/7

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

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



Right In:  $-4.237 \pm 19.220$   $\chi^2/\text{NDF}$ : 0.4/2

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

Right Out:  $-18.229 \pm 17.704$   $\chi^2/\text{NDF}$ : 2.9/4

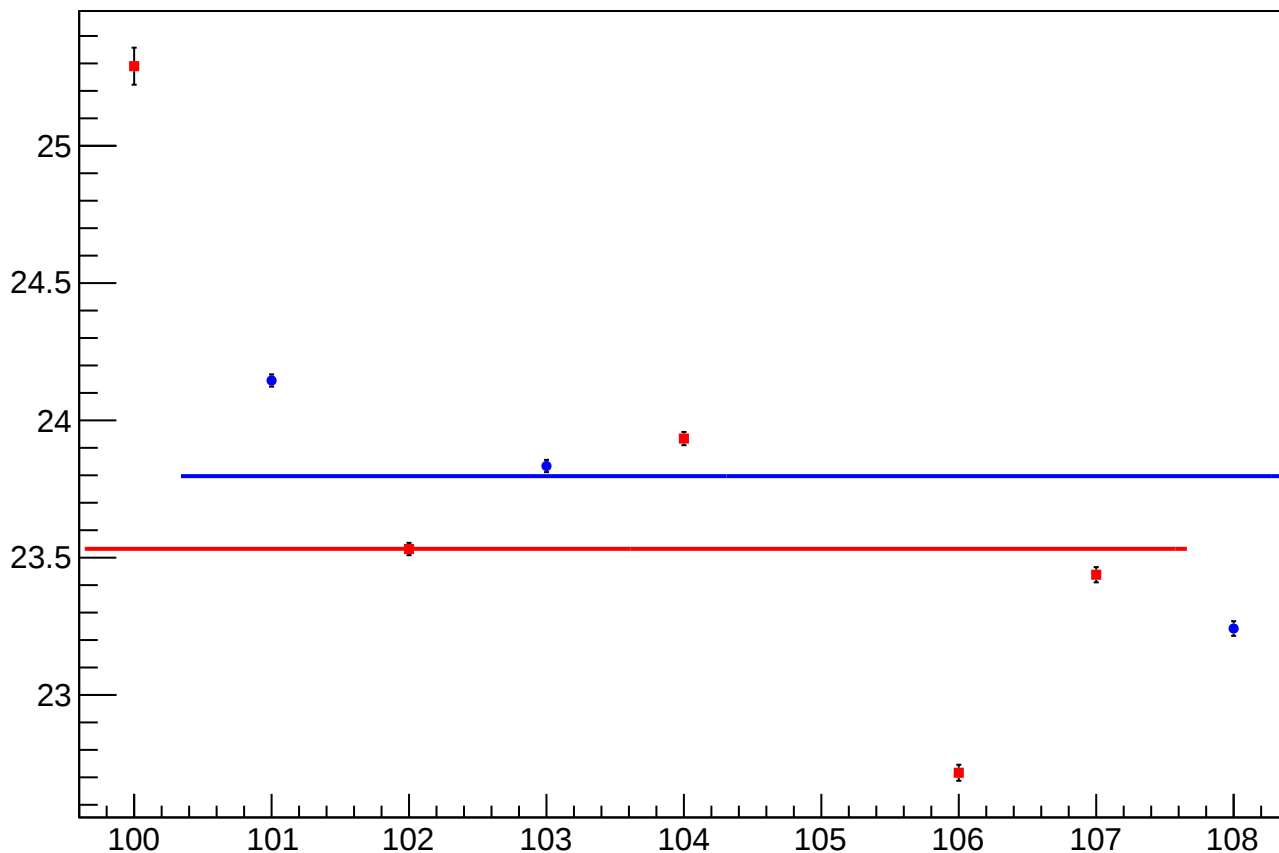
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-11.807 \pm 13.021$   $\chi^2/\text{NDF}$ : 3.6/7

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

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



Right In: 23.797 $\pm$ 0.014  $\chi^2$ /NDF: 679.2/2

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

Right Out: 23.532 $\pm$ 0.013  $\chi^2$ /NDF: 1745.9/4

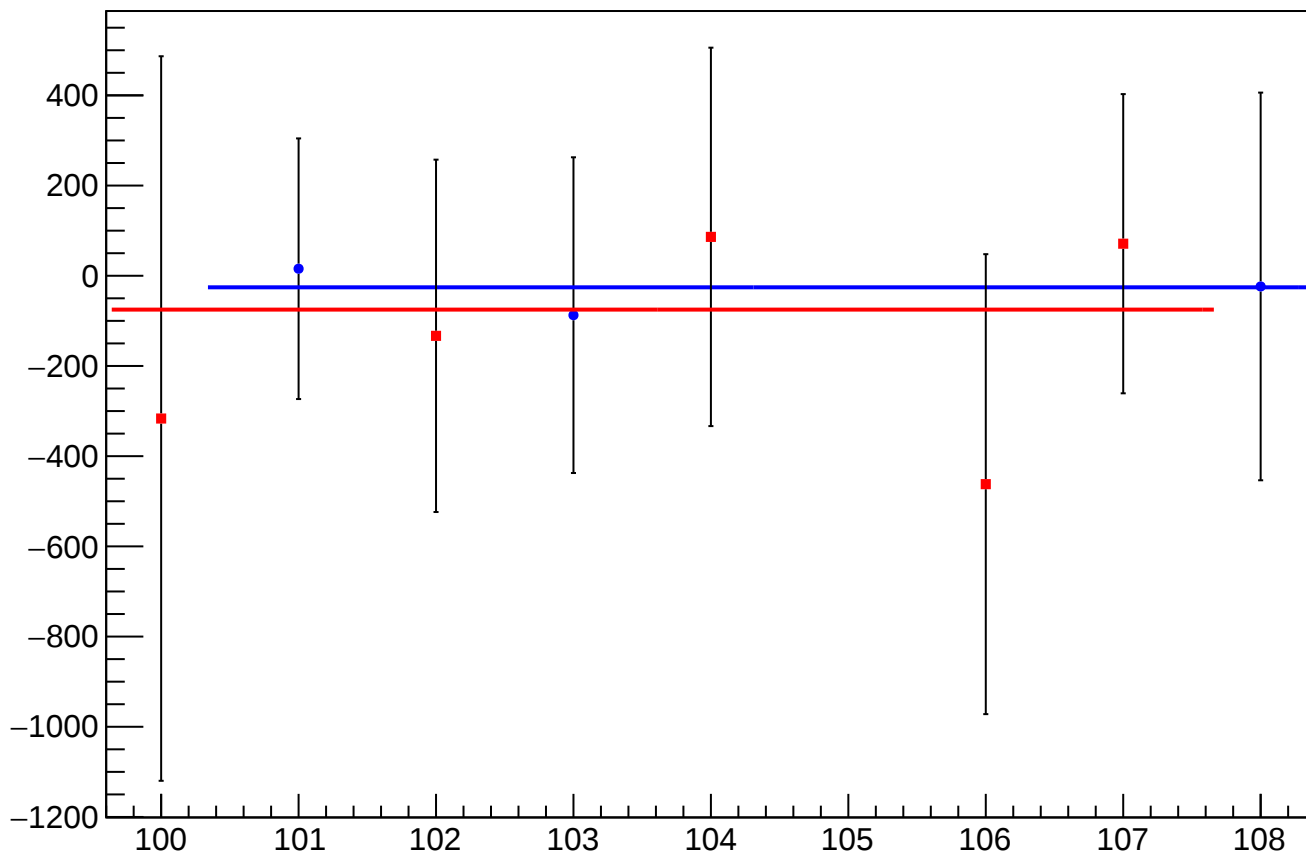
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 23.654 $\pm$ 0.009  $\chi^2$ /NDF: 2630.4/7

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

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



Right In: -25.606 $\pm$ 197.822  $\chi^2$ /NDF: 0.1/2

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

Right Out: -75.034 $\pm$ 193.459  $\chi^2$ /NDF: 1.0/4

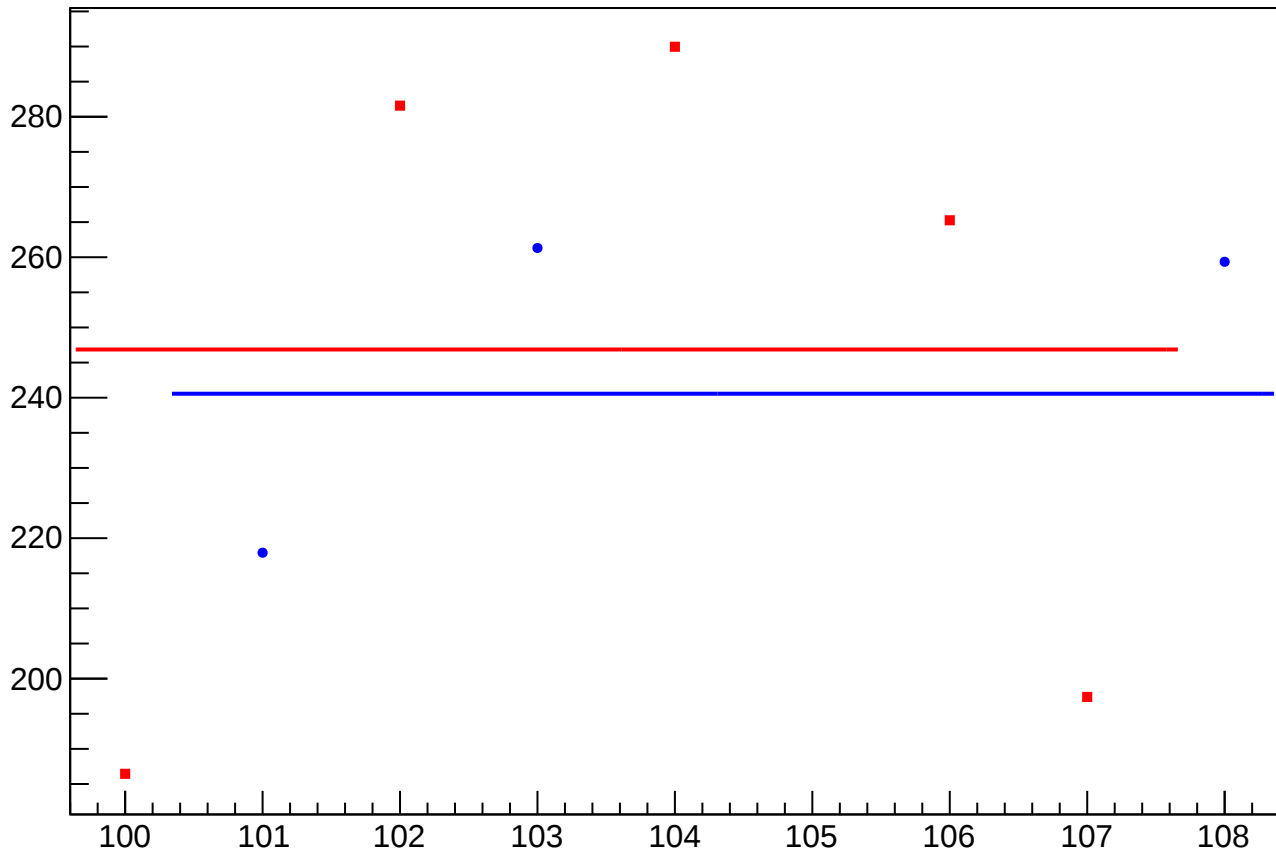
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -50.871 $\pm$ 138.313  $\chi^2$ /NDF: 1.1/7

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

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



Right In: 240.565 $\pm$ 0.140  $\chi^2$ /NDF: 23124.6/2

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

Right Out: 246.864 $\pm$ 0.137  $\chi^2$ /NDF: 95303.8/4

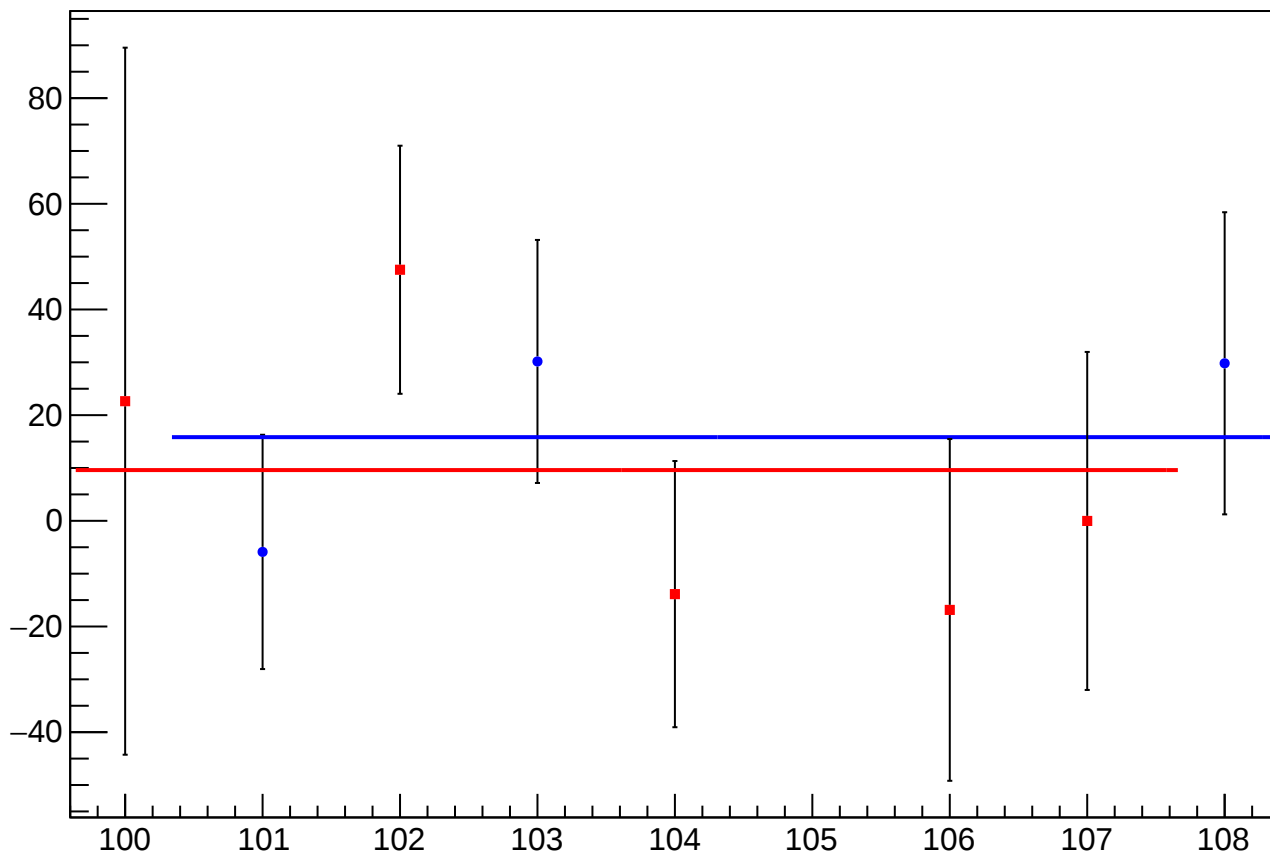
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 243.785 $\pm$ 0.098  $\chi^2$ /NDF: 119464.8/7

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

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



Right In: 15.837 $\pm$ 13.937  $\chi^2$ /NDF: 1.6/2

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

Right Out: 9.605 $\pm$ 13.427  $\chi^2$ /NDF: 4.3/4

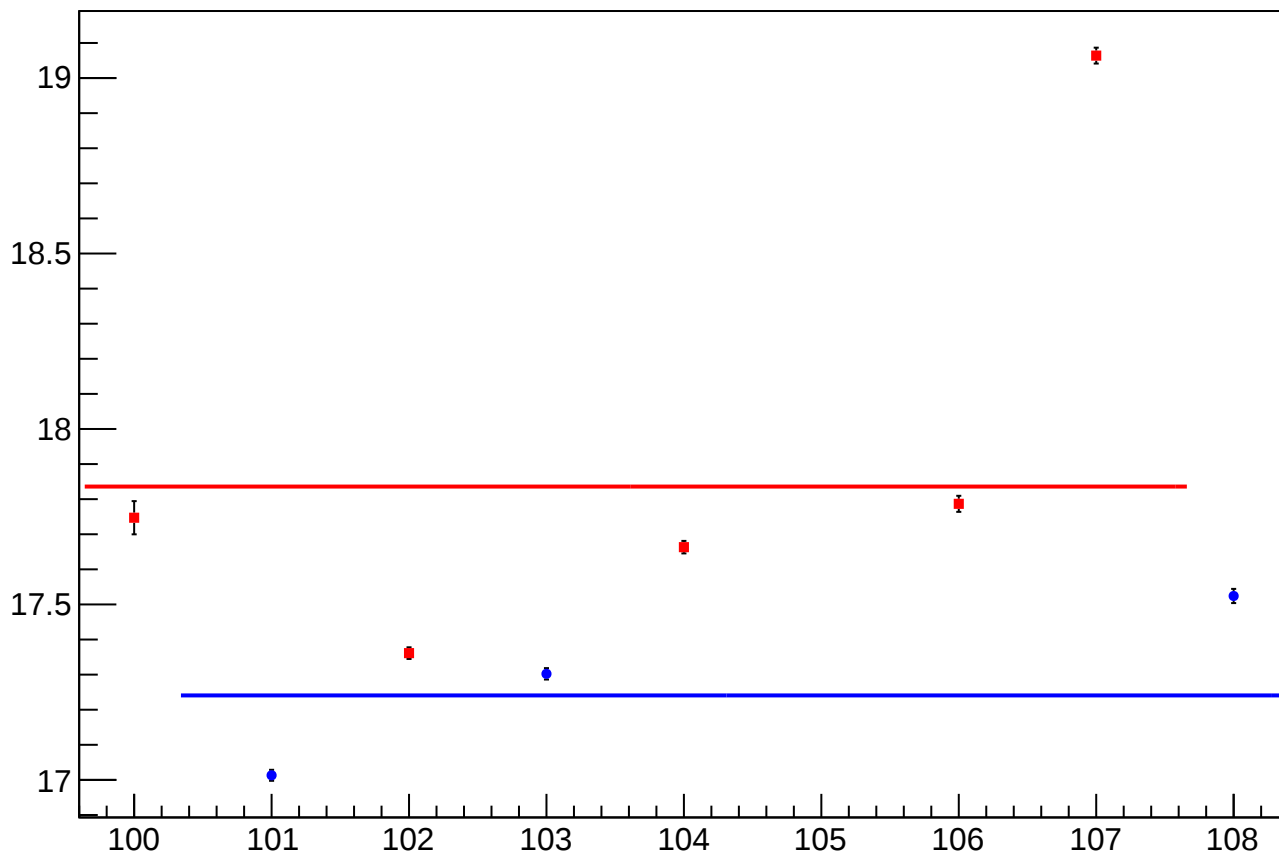
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 12.605 $\pm$ 9.670  $\chi^2$ /NDF: 6.0/7

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

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



Right In: 17.241 $\pm$ 0.010  $\chi^2$ /NDF: 421.5/2

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

Right Out: 17.836 $\pm$ 0.009  $\chi^2$ /NDF: 3867.5/4

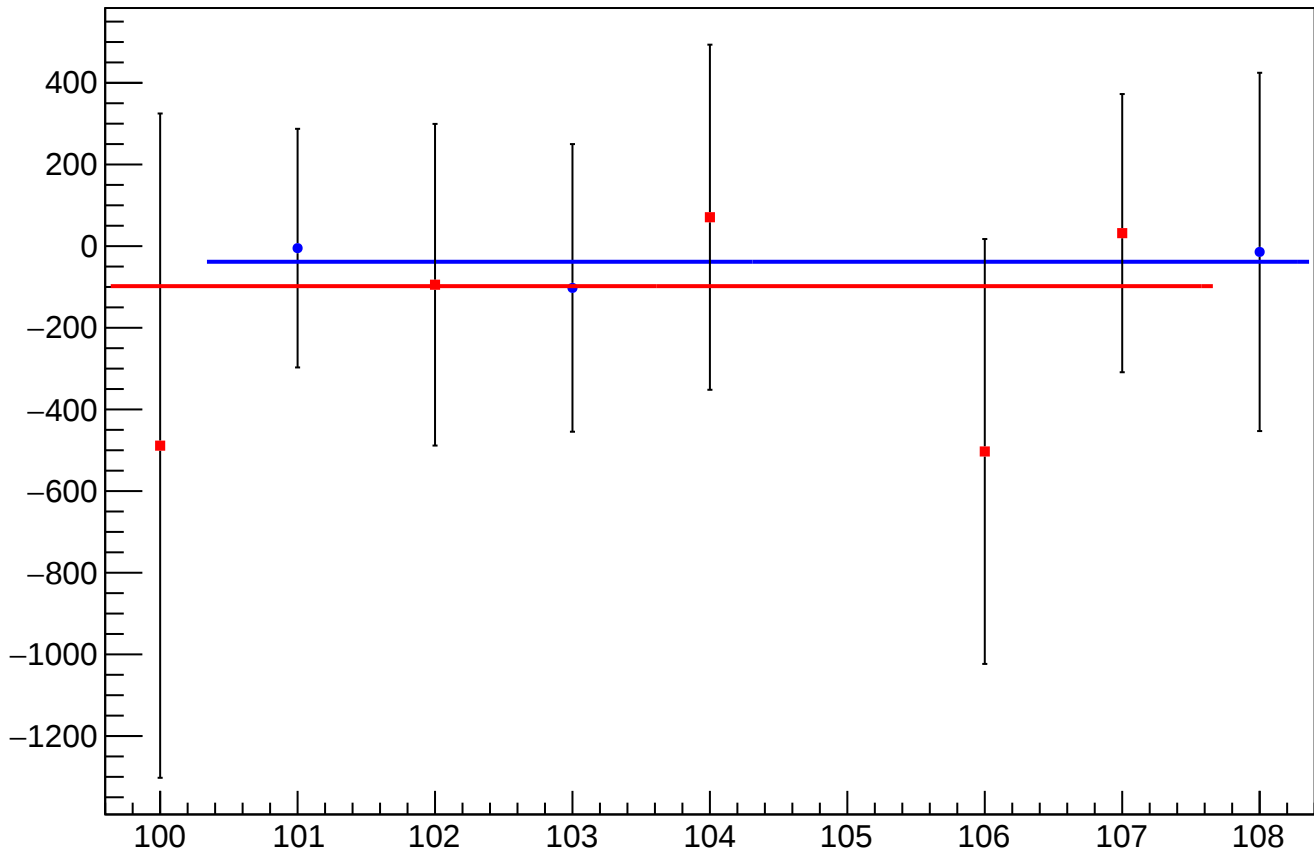
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 17.549 $\pm$ 0.007  $\chi^2$ /NDF: 6180.7/7

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

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



Right In: -38.269 $\pm$ 200.169  $\chi^2$ /NDF: 0.0/2

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

Right Out: -97.994 $\pm$ 196.657  $\chi^2$ /NDF: 1.1/4

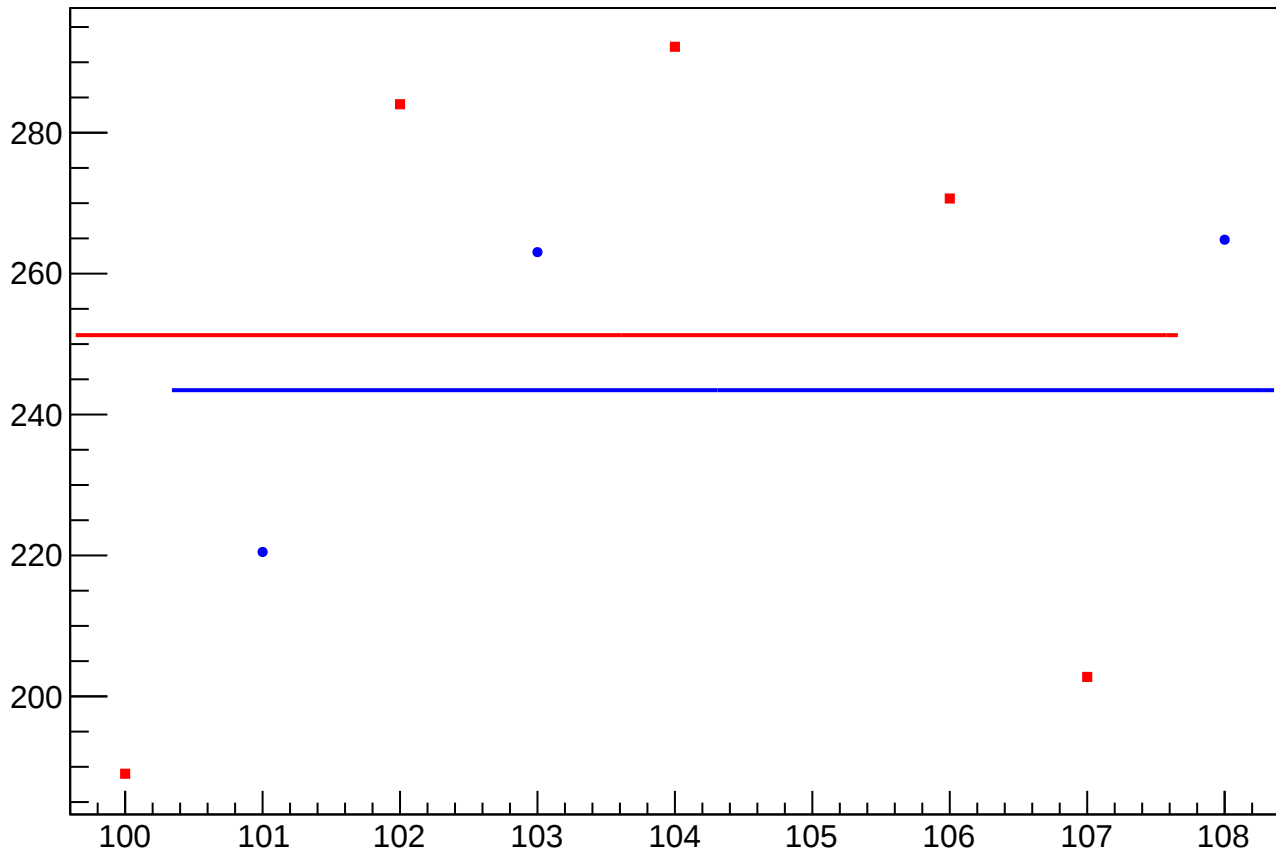
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -68.660 $\pm$ 140.283  $\chi^2$ /NDF: 1.2/7

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

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



Right In: 243.456 $\pm$ 0.142  $\chi^2$ /NDF: 23265.7/2

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

Right Out: 251.268 $\pm$ 0.139  $\chi^2$ /NDF: 87617.6/4

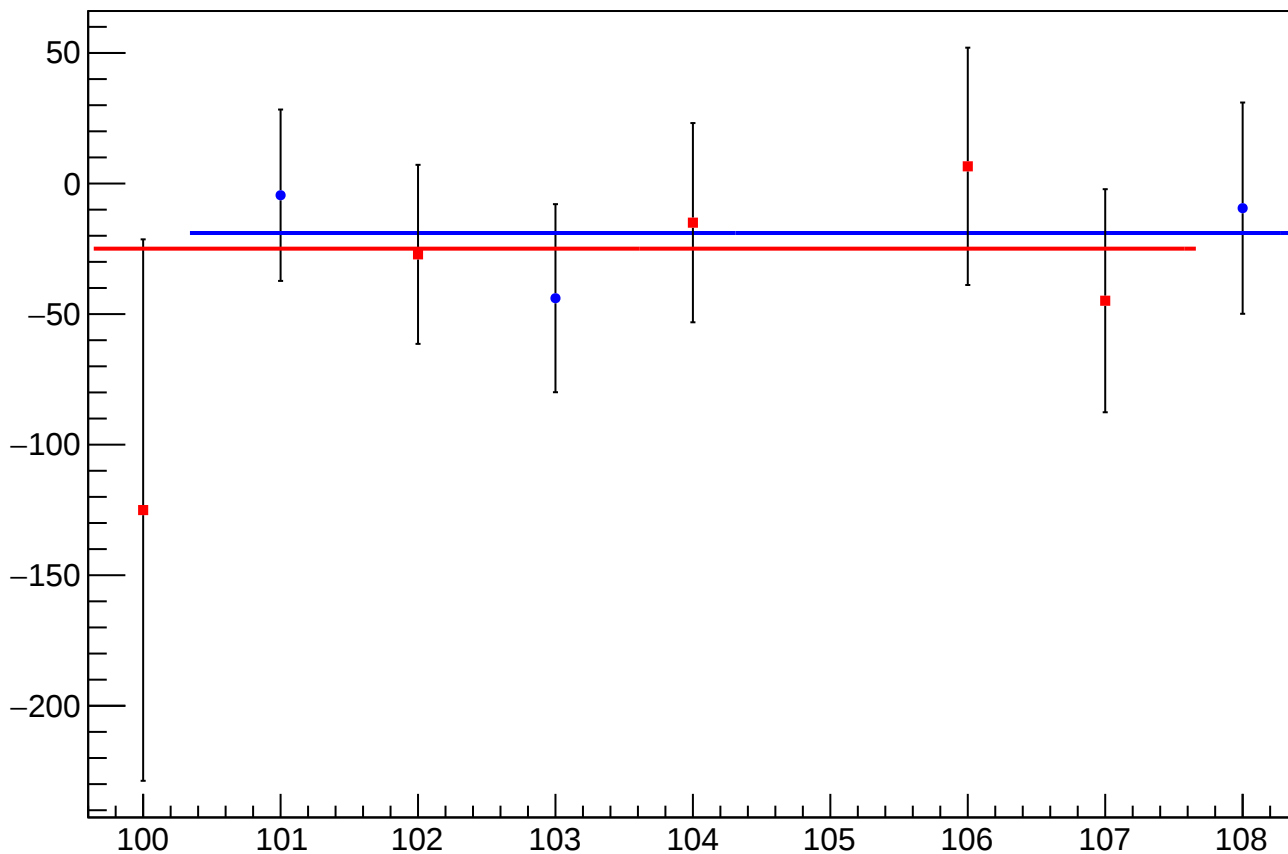
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 247.431 $\pm$ 0.099  $\chi^2$ /NDF: 112433.7/7

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

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



Right In: -18.944+/-20.803  $\chi^2/\text{NDF}$ : 0.7/2

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

Right Out: -24.936+/-19.377  $\chi^2/\text{NDF}$ : 1.7/4

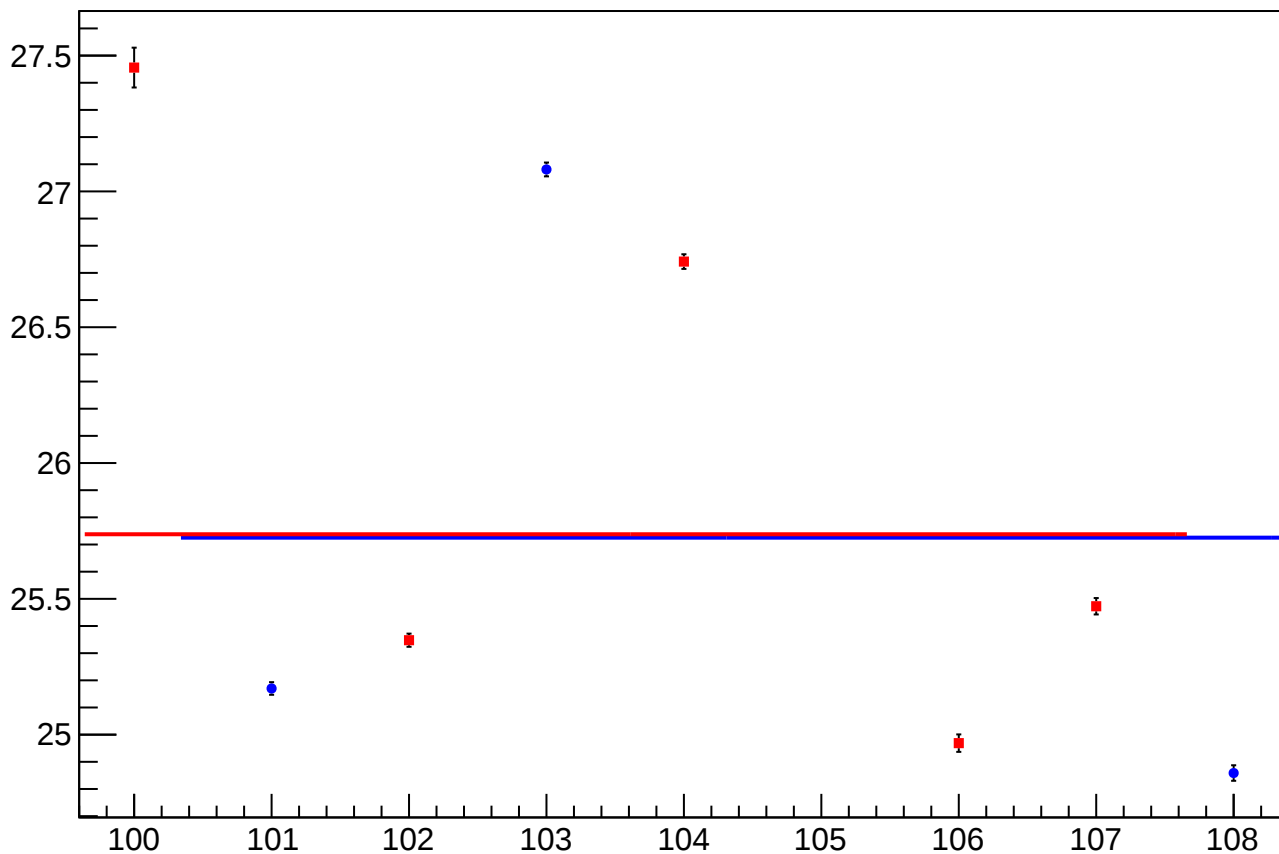
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -22.152+/-14.179  $\chi^2/\text{NDF}$ : 2.5/7

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

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



Right In: 25.725+/-0.015  $\chi^2/\text{NDF}$ : 4323.7/2

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

Right Out: 25.738+/-0.014  $\chi^2/\text{NDF}$ : 2842.6/4

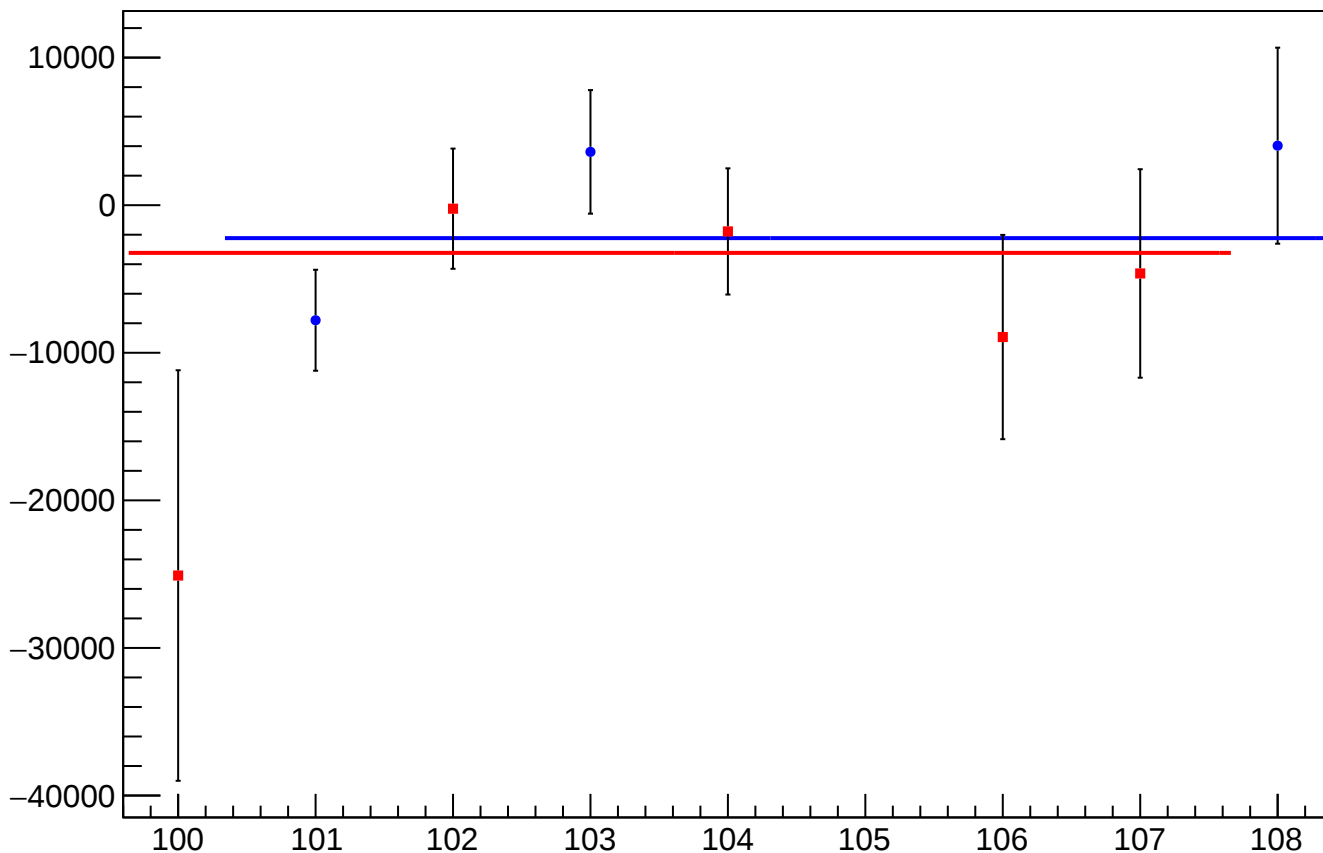
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 25.732+/-0.010  $\chi^2/\text{NDF}$ : 7166.6/7

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

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



Right In: -2232.039+/-2460.291  $\chi^2$ /NDF: 5.5/2

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

Right Out: -3231.825+/-2491.727  $\chi^2$ /NDF: 3.8/4

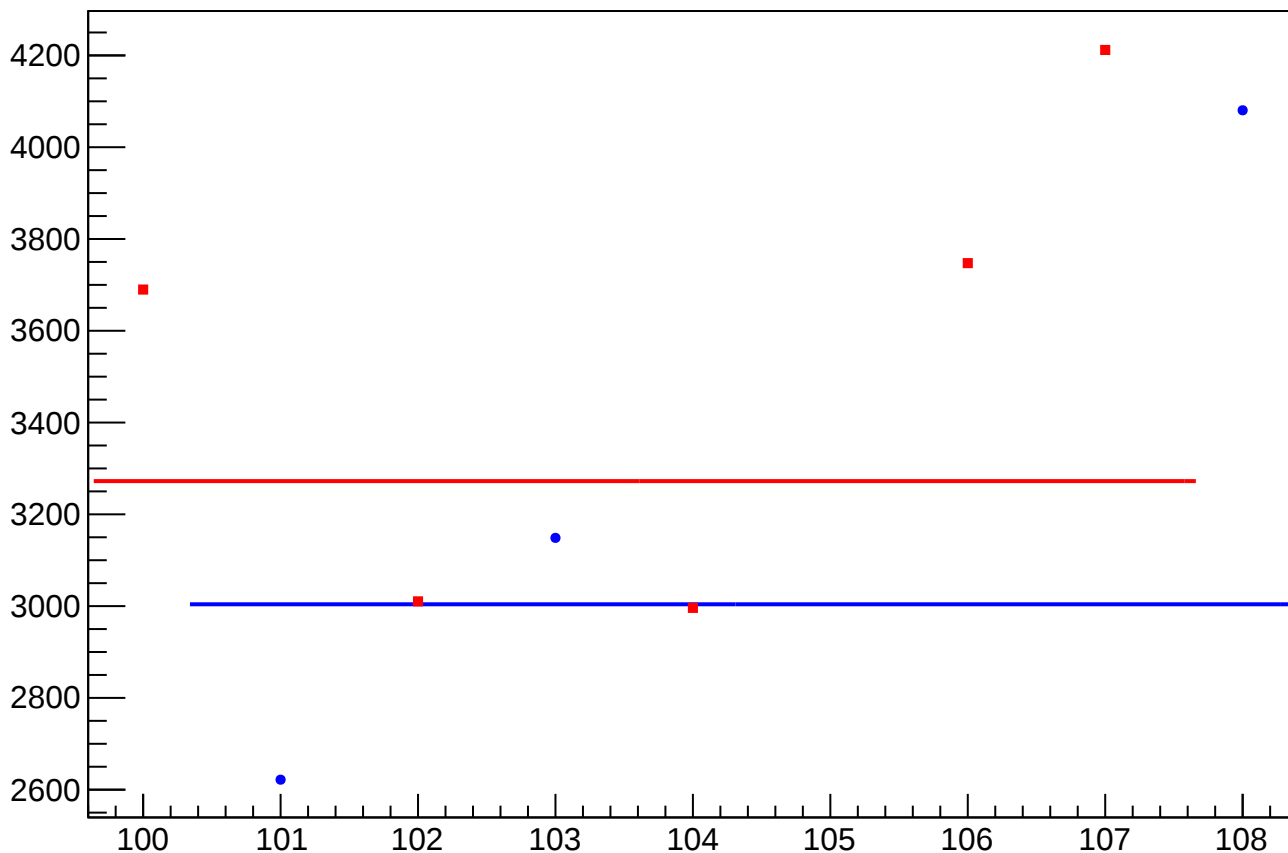
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -2725.585+/-1750.697  $\chi^2$ /NDF: 9.4/7

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

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



Right In: 3003.997 $\pm$ 1.740  $\chi^2$ /NDF: 79910.7/2

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

Right Out: 3272.422 $\pm$ 1.762  $\chi^2$ /NDF: 63230.4/4

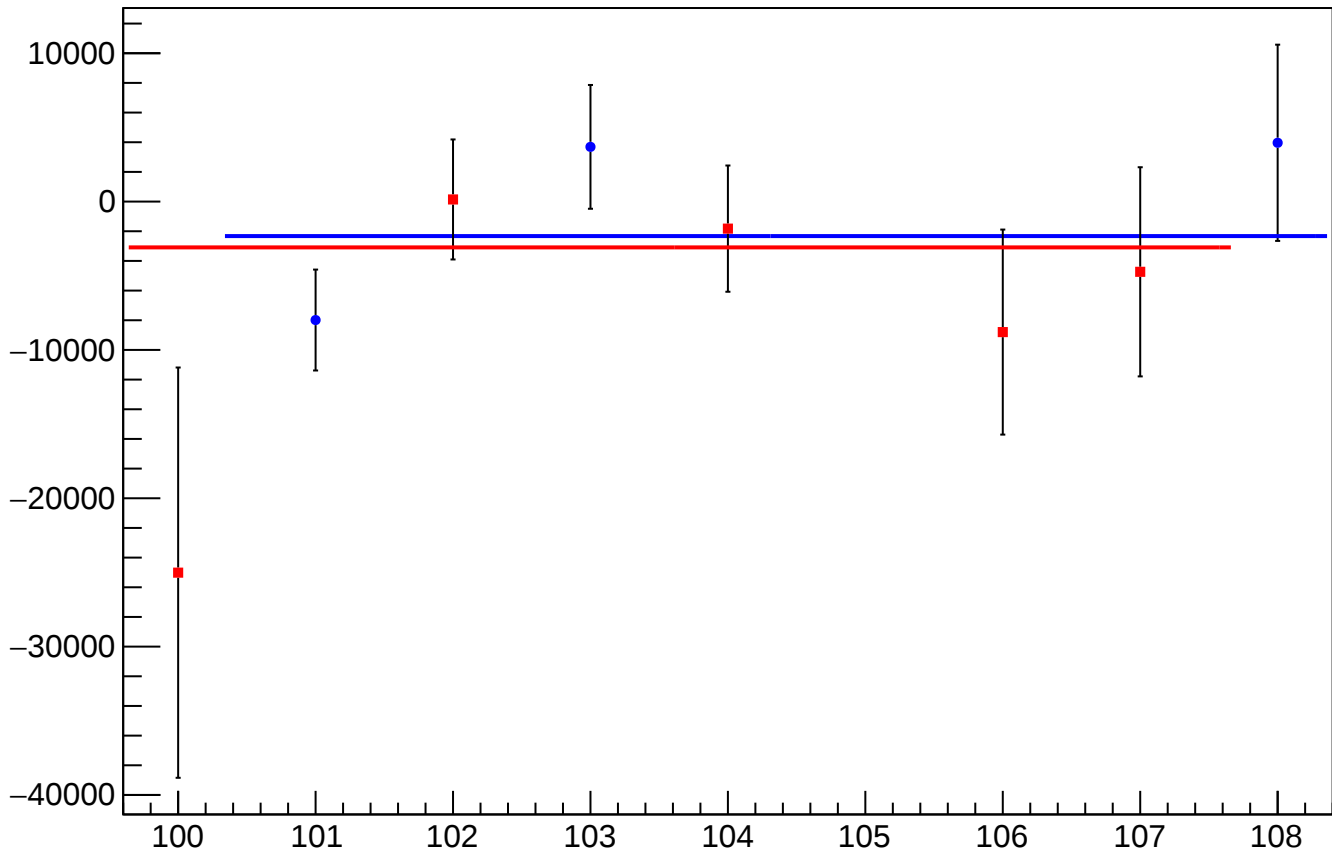
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 3136.505 $\pm$ 1.238  $\chi^2$ /NDF: 154893.5/7

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

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



Right In: -2326.174+/-2448.902  $\chi^2$ /NDF: 5.8/2

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

Right Out: -3088.360+/-2479.698  $\chi^2$ /NDF: 4.0/4

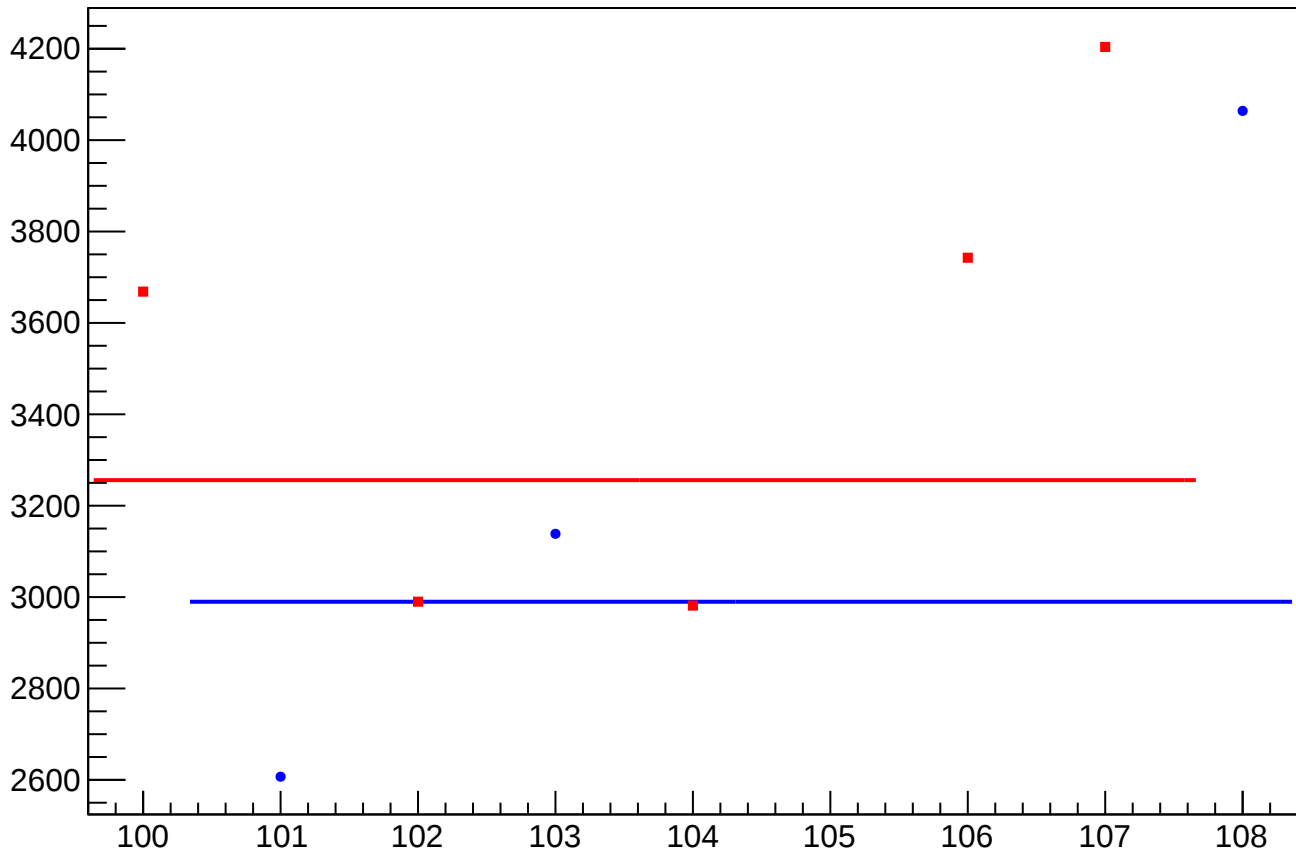
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -2702.505+/-1742.421  $\chi^2$ /NDF: 9.8/7

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

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



Right In: 2989.802 $\pm$ 1.732  $\chi^2$ /NDF: 80637.8/2

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

Right Out: 3255.969 $\pm$ 1.753  $\chi^2$ /NDF: 64835.3/4

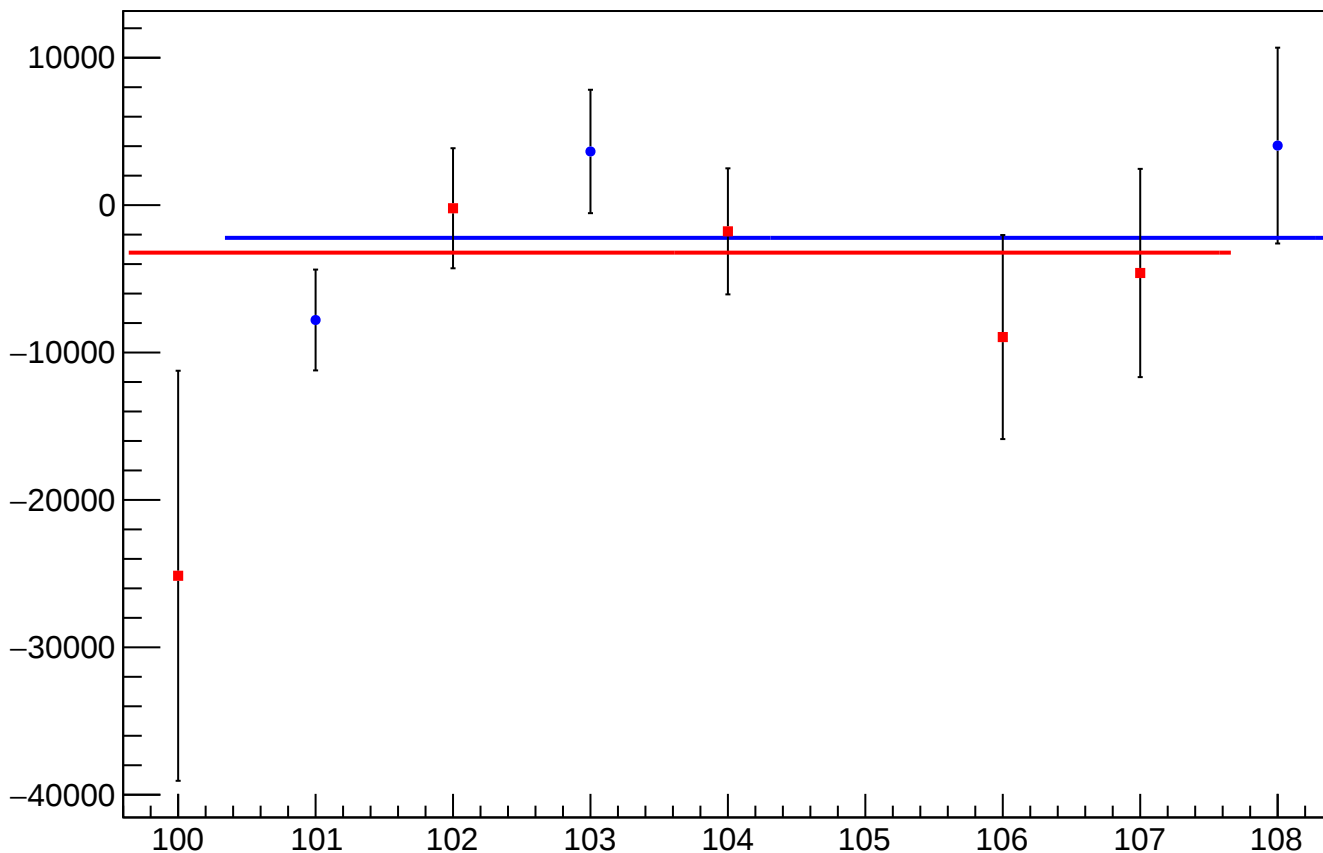
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 3121.223 $\pm$ 1.232  $\chi^2$ /NDF: 157138.6/7

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

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



Right In: -2219.701+/-2460.357  $\chi^2$ /NDF: 5.5/2

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

Right Out: -3223.317+/-2491.793  $\chi^2$ /NDF: 3.9/4

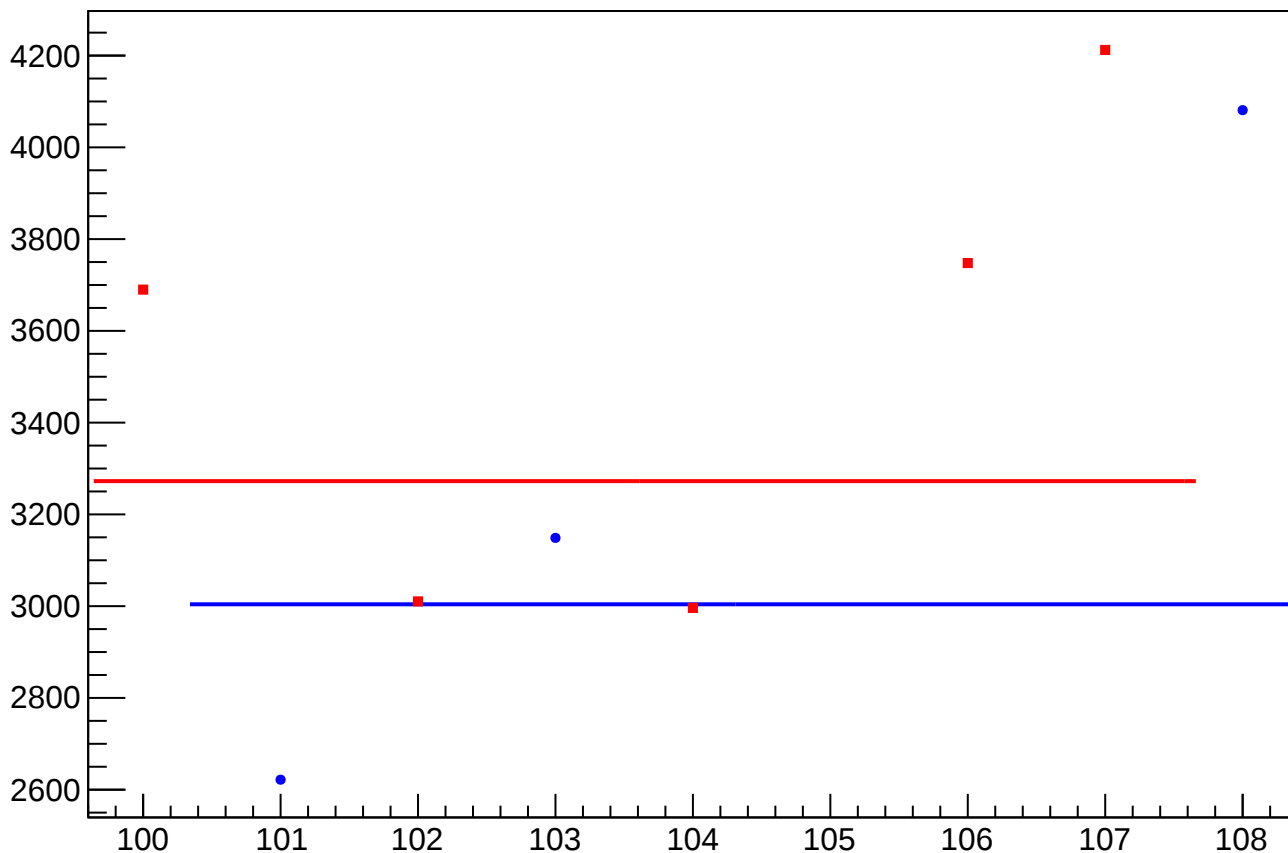
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -2715.138+/-1750.743  $\chi^2$ /NDF: 9.5/7

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

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 3004.056 $\pm$ 1.740  $\chi^2$ /NDF: 79952.7/2

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

Right Out: 3272.489 $\pm$ 1.762  $\chi^2$ /NDF: 63266.3/4

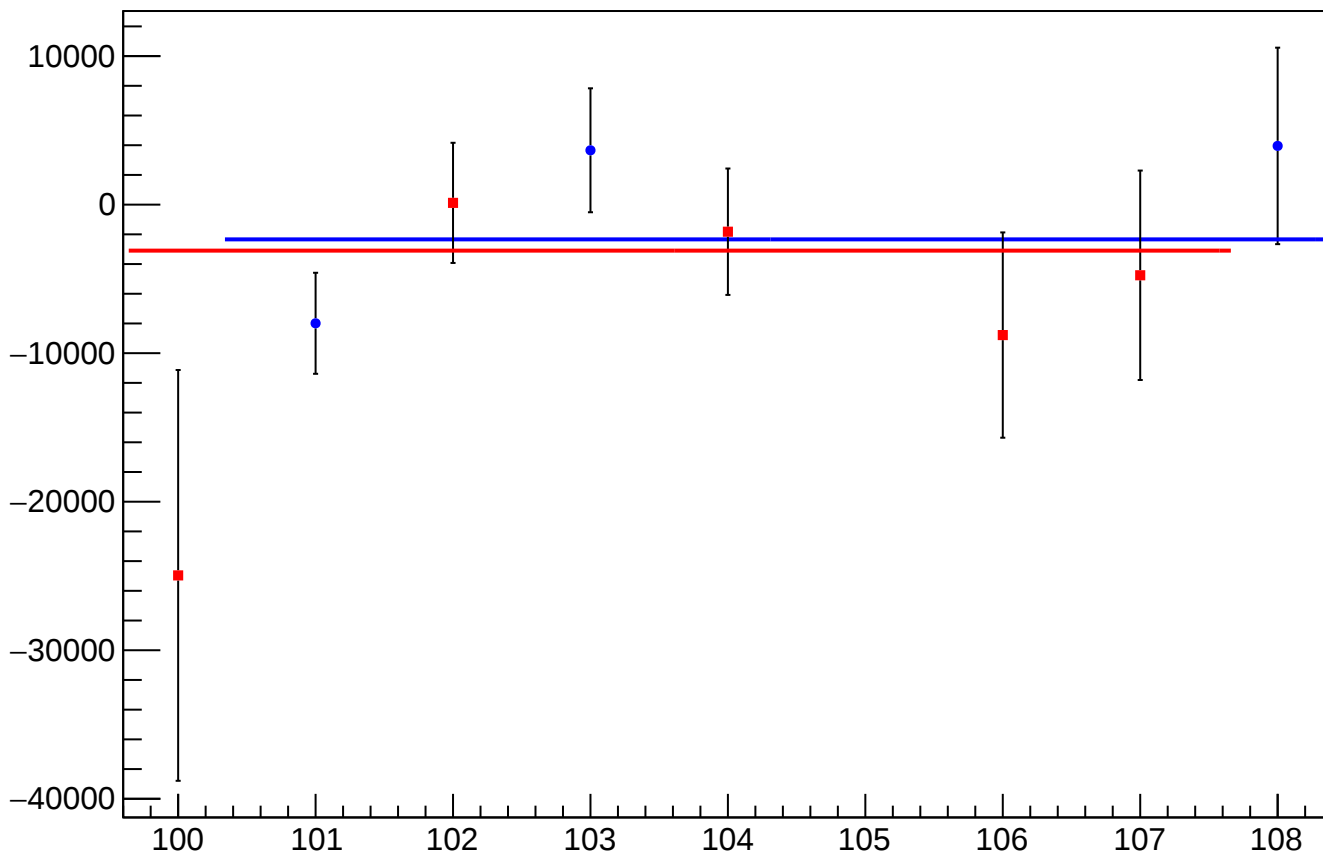
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 3136.568 $\pm$ 1.238  $\chi^2$ /NDF: 154971.3/7

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

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: -2338.792 $\pm$ 2448.805  $\chi^2$ /NDF: 5.7/2

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

Right Out: -3096.108 $\pm$ 2479.595  $\chi^2$ /NDF: 4.0/4

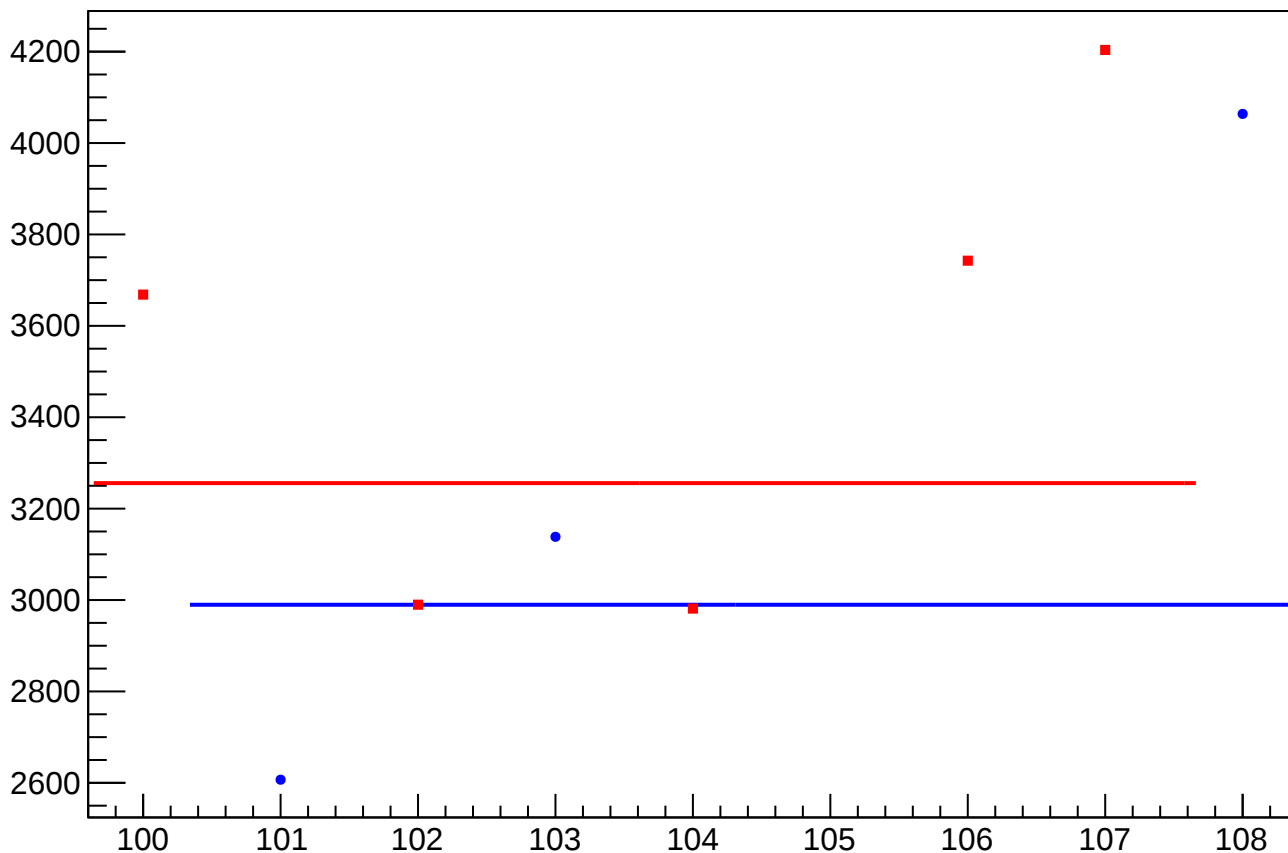
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -2712.718 $\pm$ 1742.351  $\chi^2$ /NDF: 9.7/7

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

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 2989.686 $\pm$ 1.732  $\chi^2$ /NDF: 80630.2/2

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

Right Out: 3255.835 $\pm$ 1.753  $\chi^2$ /NDF: 64835.9/4

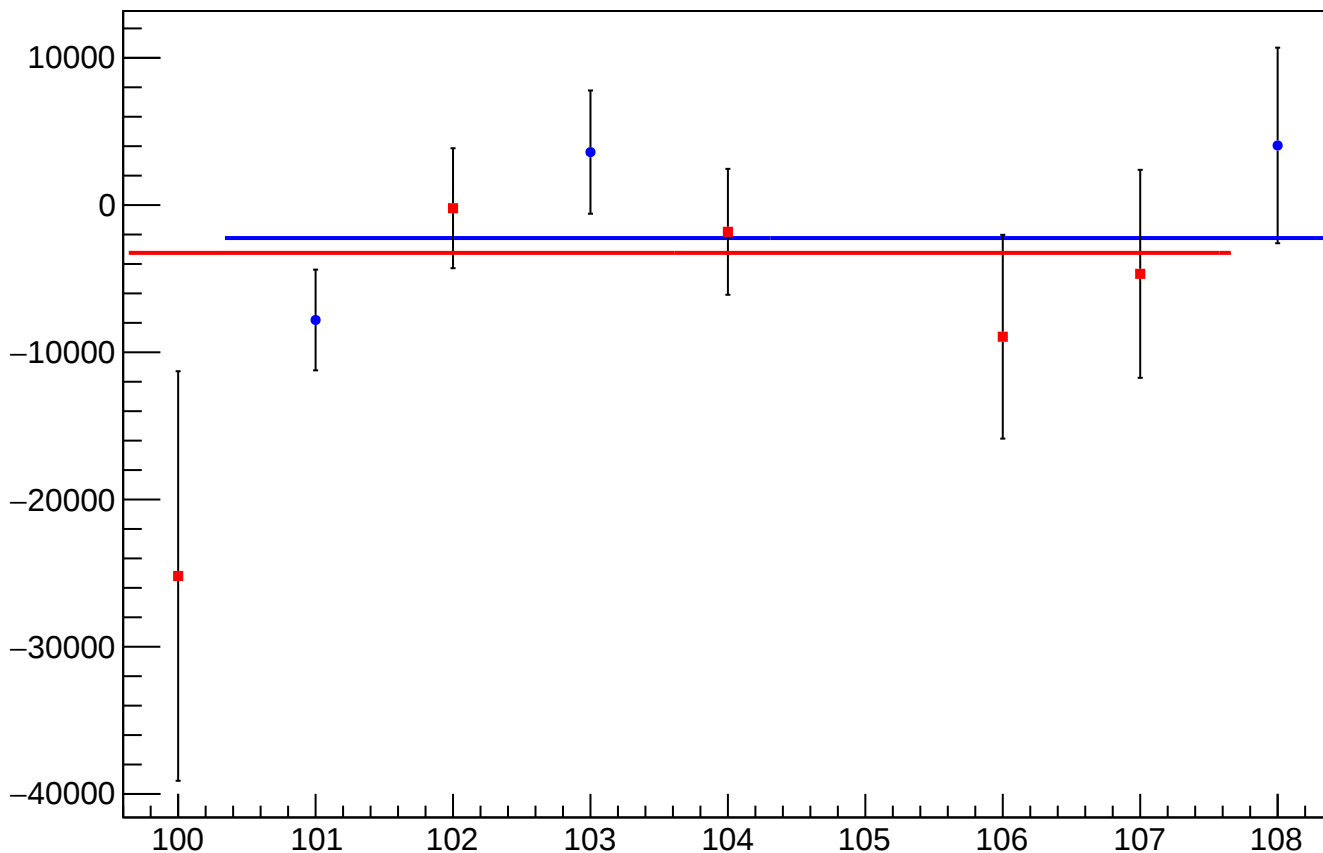
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 3121.097 $\pm$ 1.232  $\chi^2$ /NDF: 157131.0/7

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

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_mean vs Slug



Right In: -2239.522+/-2460.545  $\chi^2$ /NDF: 5.5/2

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

Right Out: -3245.454+/-2491.995  $\chi^2$ /NDF: 3.9/4

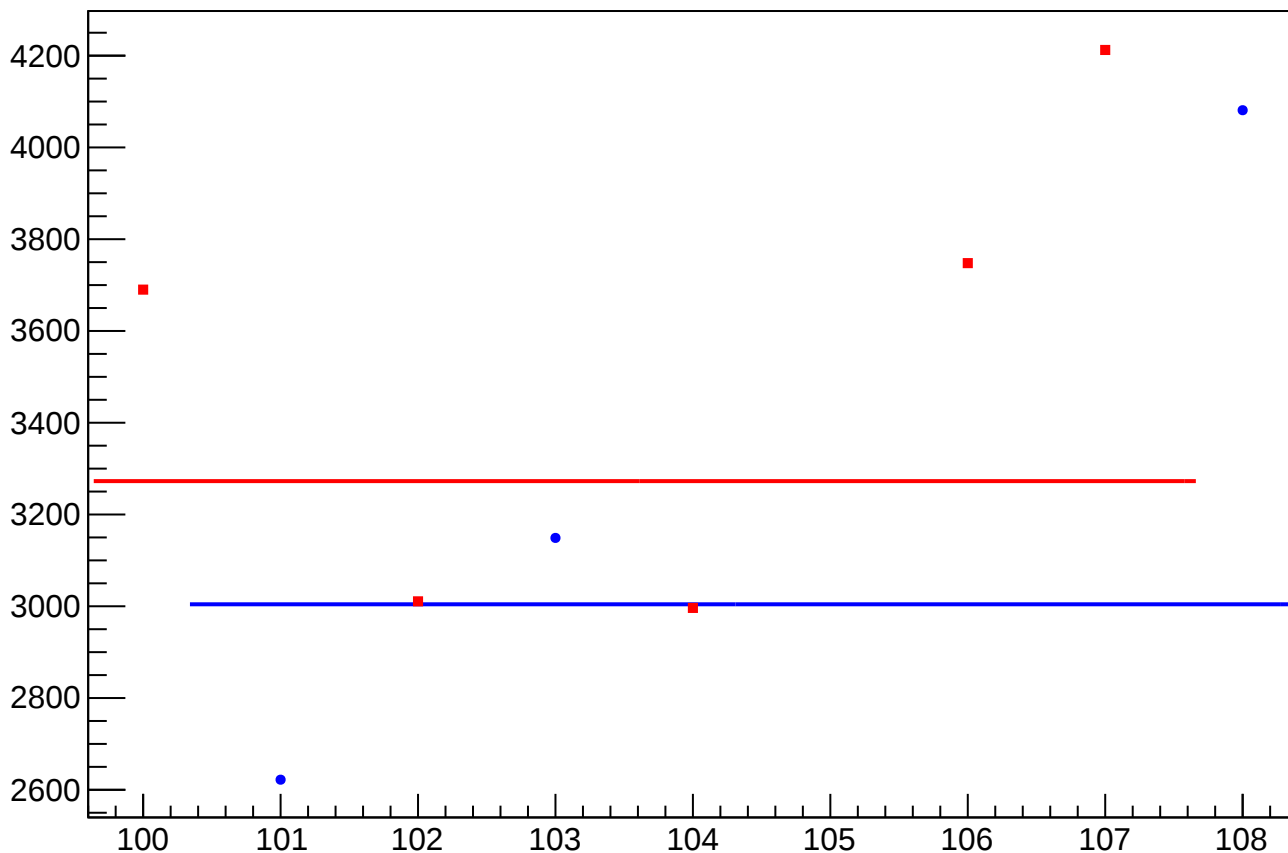
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

All: -2736.100+/-1750.881  $\chi^2$ /NDF: 9.4/7

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

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs Slug



Right In: 3004.299+/-1.740  $\chi^2/\text{NDF}$ : 79925.8/2

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

Right Out: 3272.766+/-1.762  $\chi^2/\text{NDF}$ : 63238.7/4

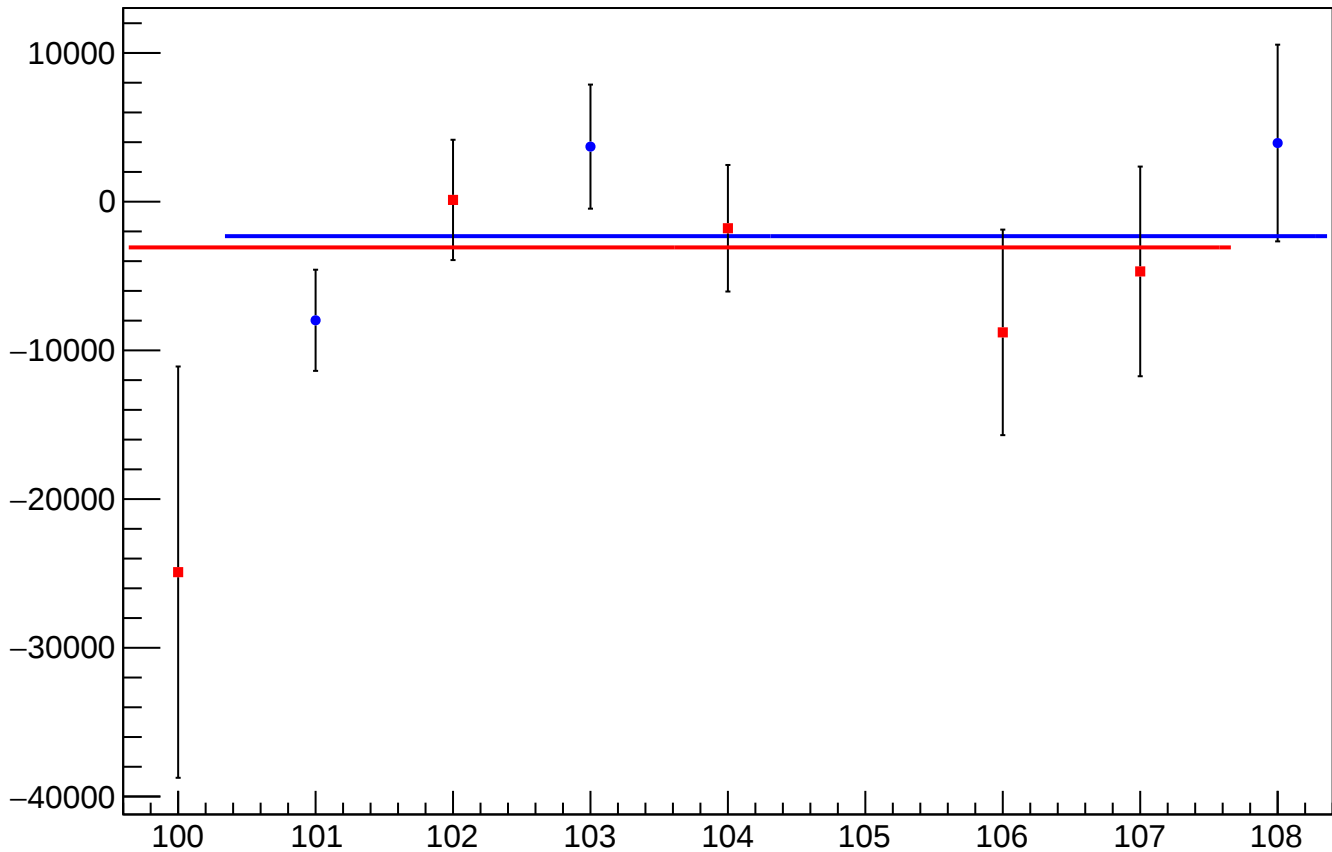
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 3136.828+/-1.238  $\chi^2/\text{NDF}$ : 154918.1/7

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

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs Slug



Right In: -2318.913 $\pm$ 2448.890  $\chi^2$ /NDF: 5.7/2

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

Right Out: -3075.230 $\pm$ 2479.698  $\chi^2$ /NDF: 3.9/4

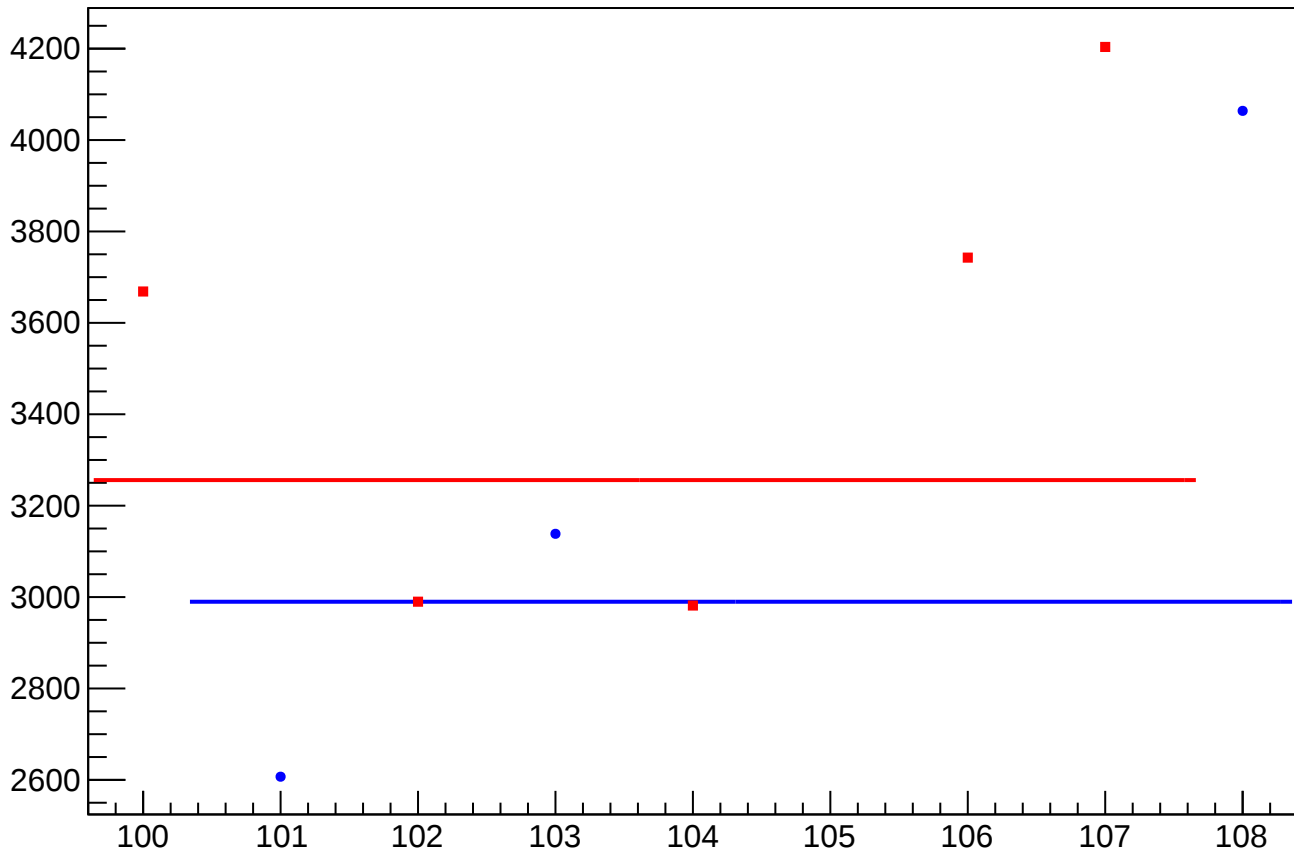
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -2692.344 $\pm$ 1742.417  $\chi^2$ /NDF: 9.7/7

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

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 2989.795 $\pm$ 1.732  $\chi^2$ /NDF: 80620.5/2

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

Right Out: 3255.974 $\pm$ 1.753  $\chi^2$ /NDF: 64823.4/4

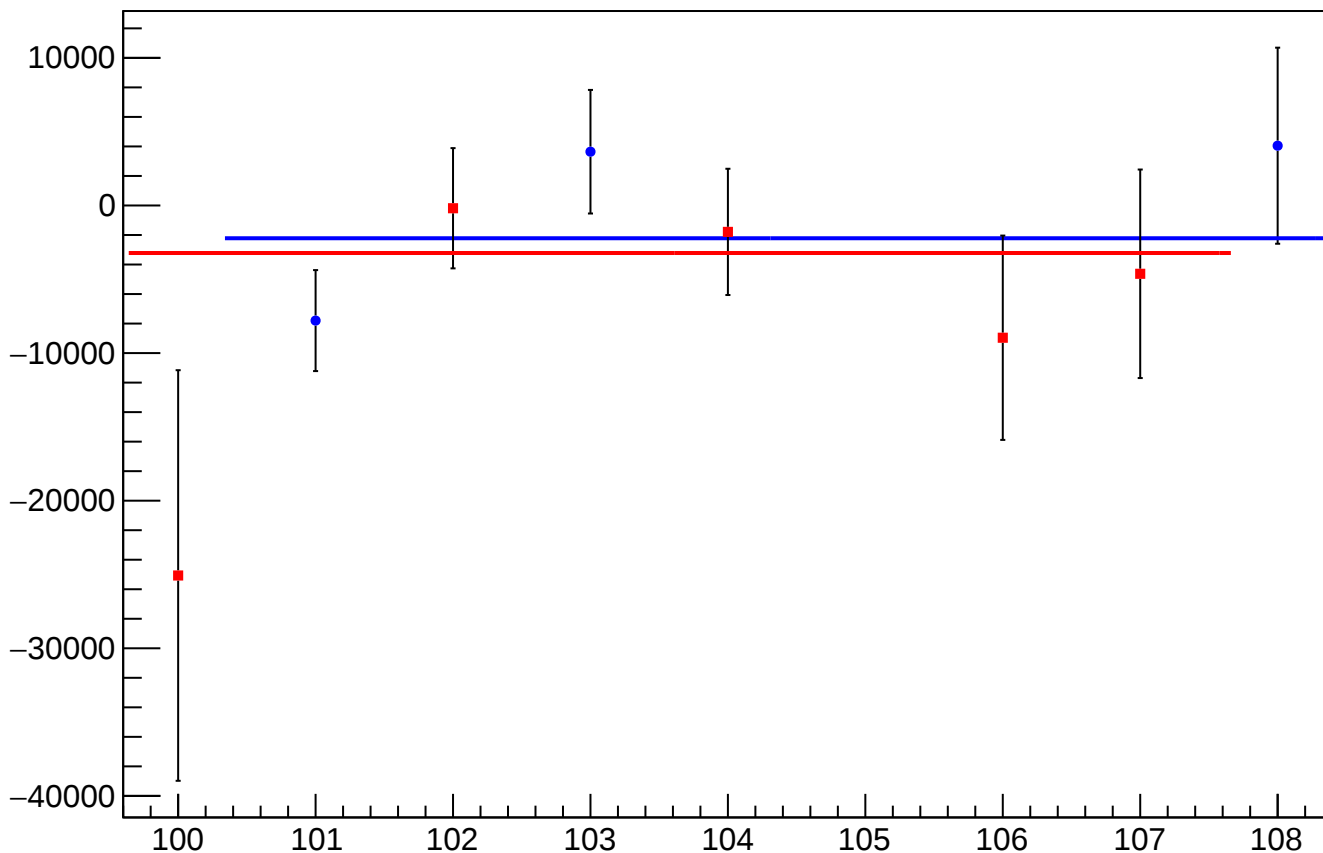
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 3121.221 $\pm$ 1.232  $\chi^2$ /NDF: 157110.5/7

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

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_mean vs Slug



Right In: -2219.944+/-2460.488  $\chi^2$ /NDF: 5.5/2

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

Right Out: -3219.713+/-2491.974  $\chi^2$ /NDF: 3.9/4

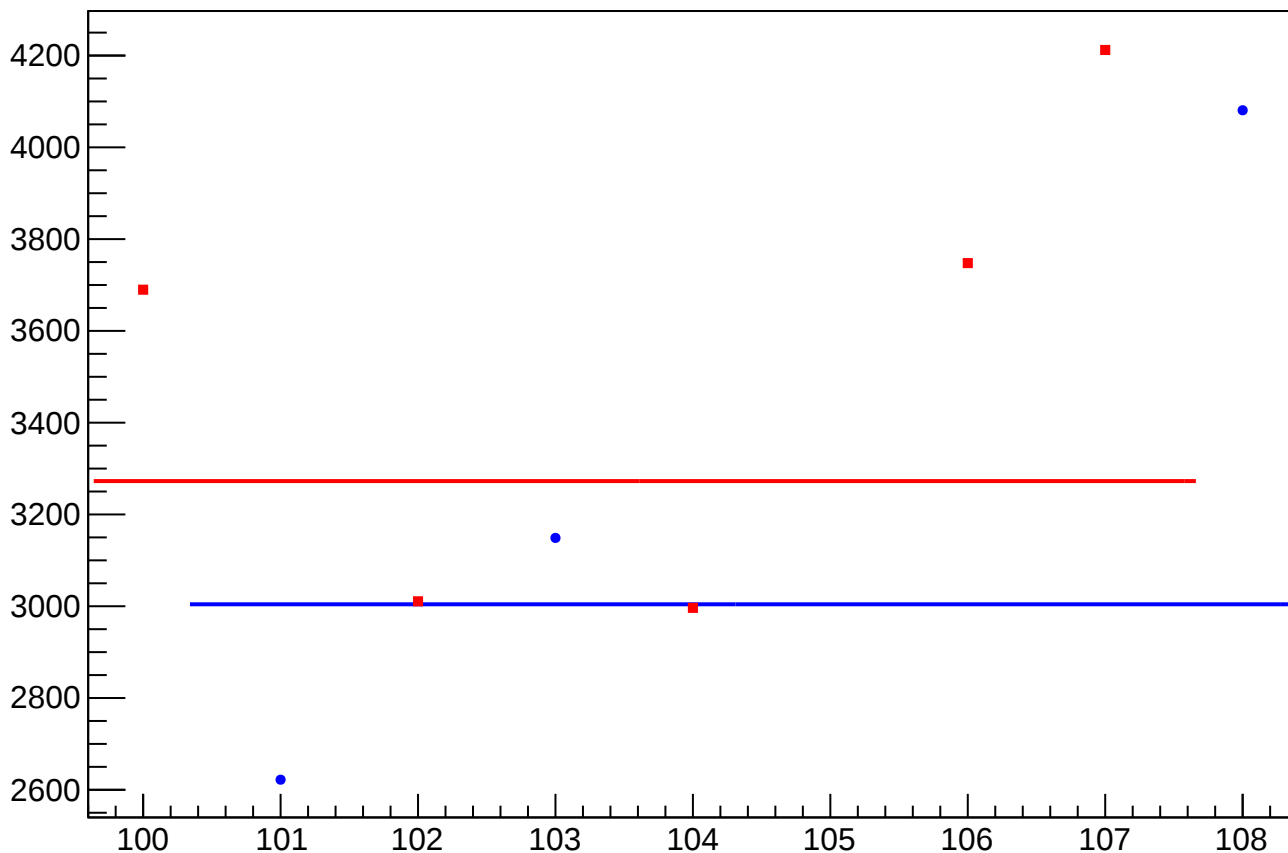
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -2713.473+/-1750.853  $\chi^2$ /NDF: 9.5/7

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug



Right In: 3004.243+/-1.740  $\chi^2/\text{NDF}$ : 79898.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3272.753+/-1.762  $\chi^2/\text{NDF}$ : 63213.1/4

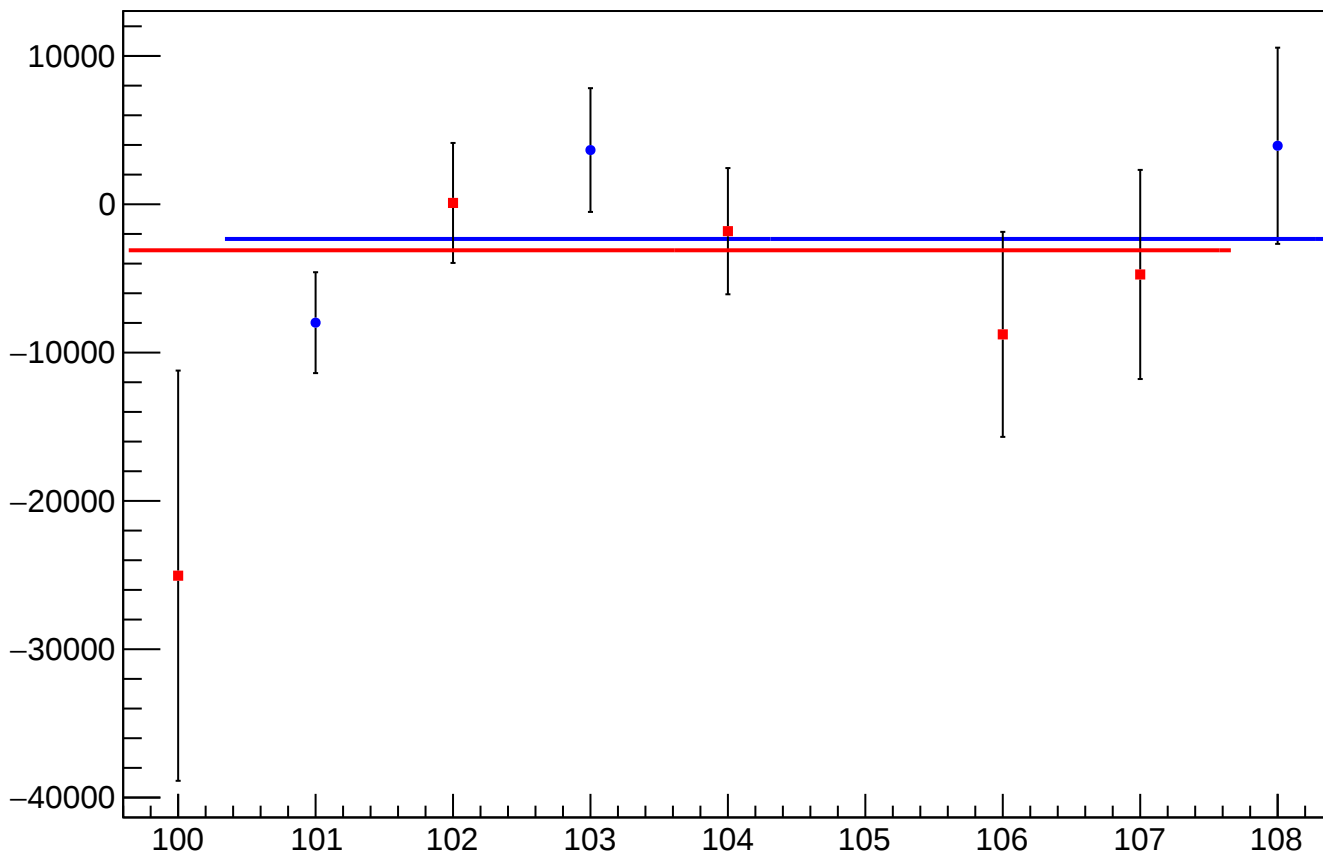
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3136.791+/-1.238  $\chi^2/\text{NDF}$ : 154868.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: -2337.953+/-2448.918  $\chi^2$ /NDF: 5.7/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -3102.142+/-2479.737  $\chi^2$ /NDF: 4.0/4

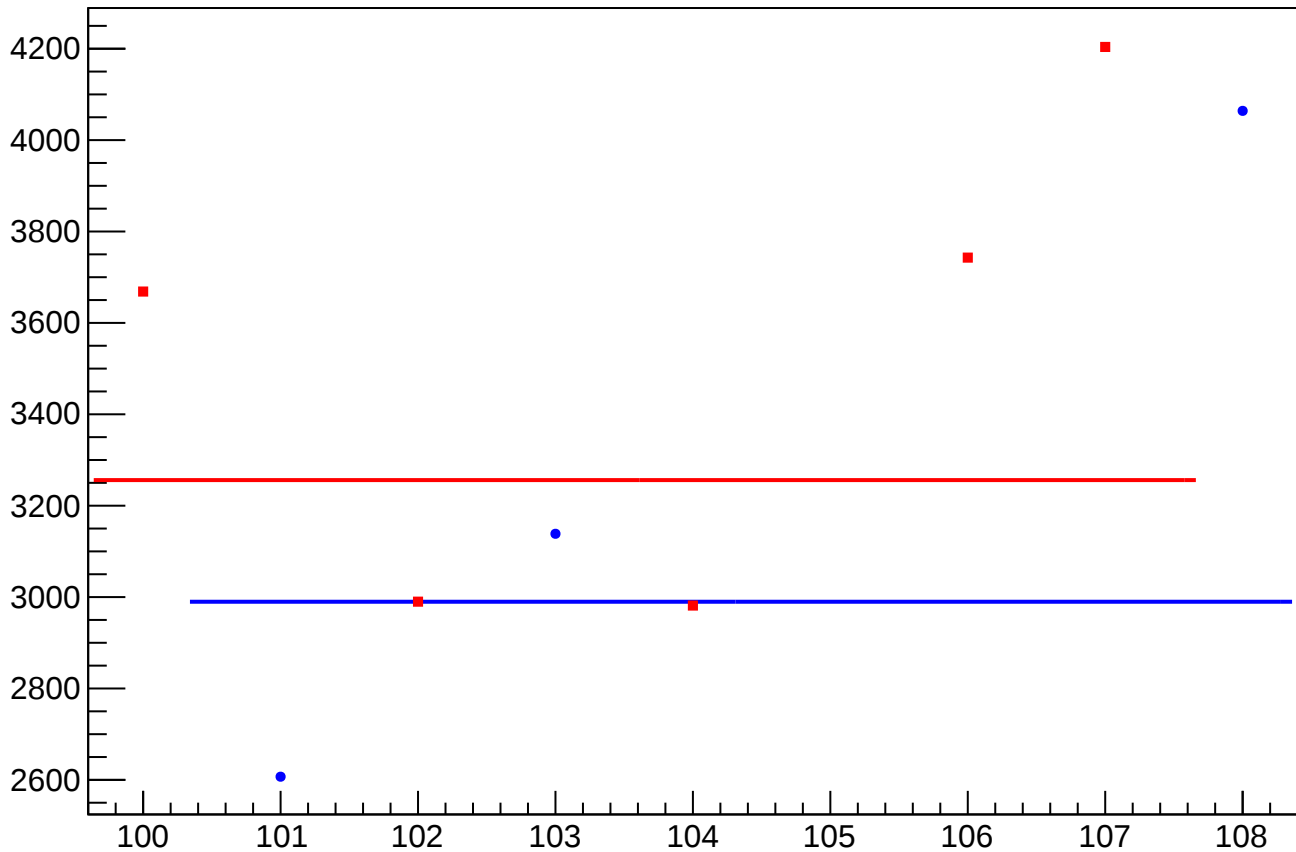
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -2715.269+/-1742.441  $\chi^2$ /NDF: 9.7/7

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 2989.821+/-1.732  $\chi^2/\text{NDF}$ : 80637.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3256.022+/-1.753  $\chi^2/\text{NDF}$ : 64833.1/4

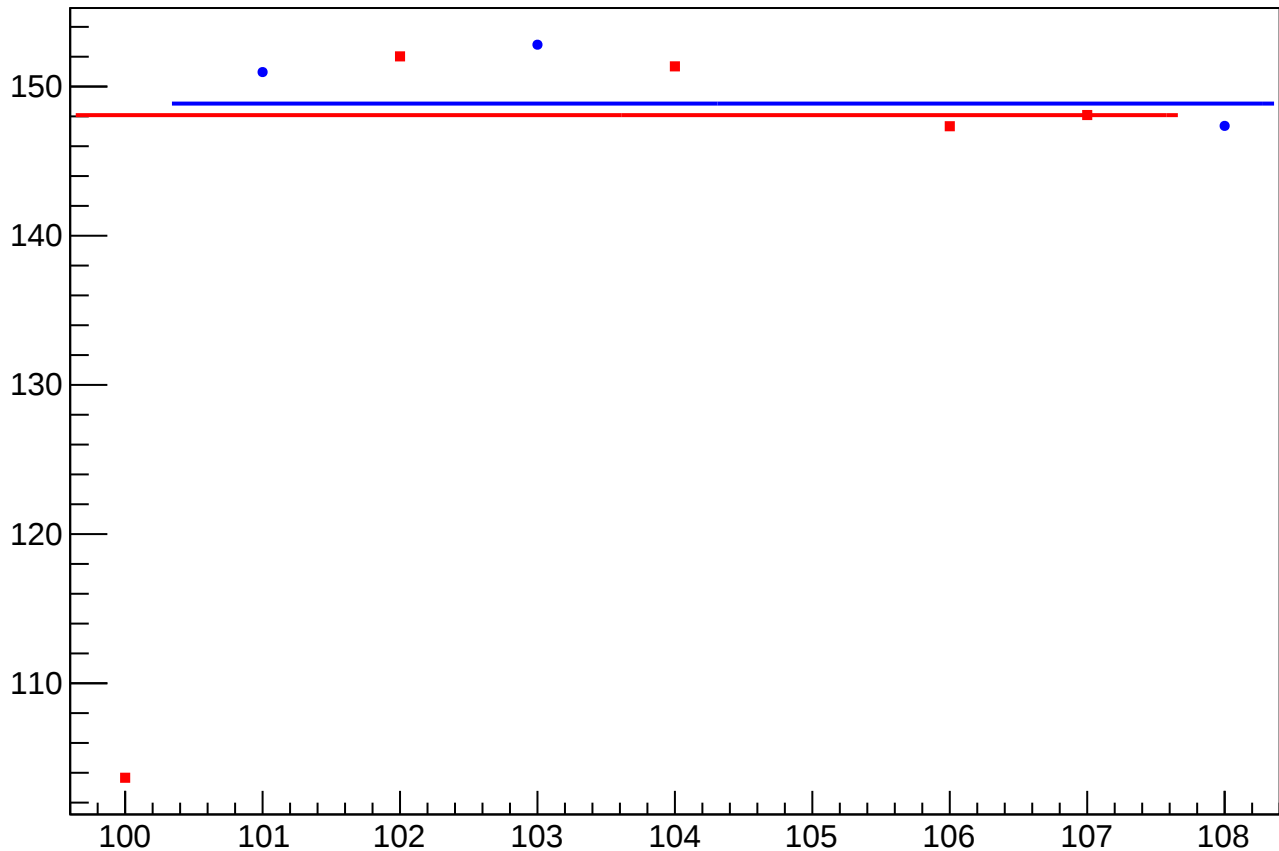
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3121.257+/-1.232  $\chi^2/\text{NDF}$ : 157139.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_an\_ds\_mean vs Slug



Right In: 148.858 $\pm$ 0.000  $\chi^2$ /NDF: 20473985.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

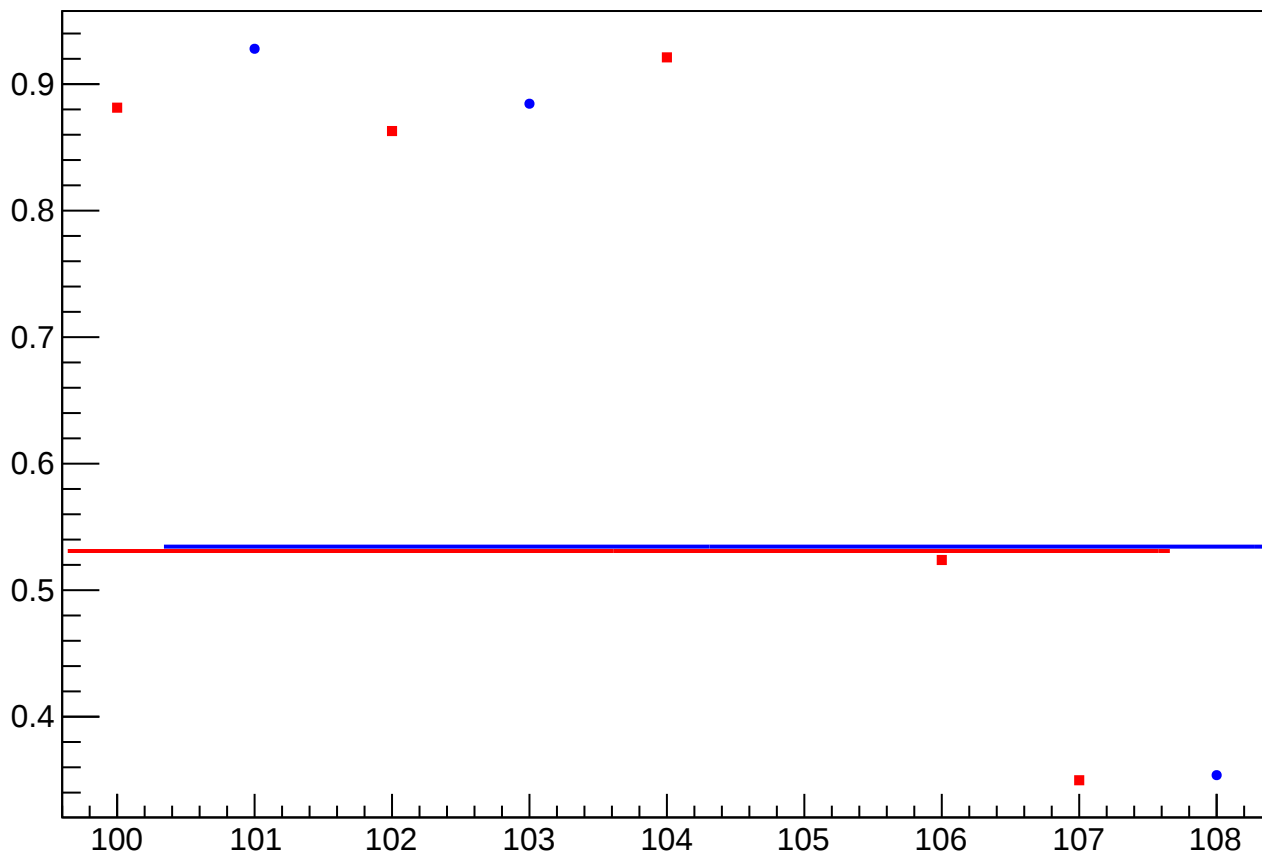
Right Out: 148.083 $\pm$ 0.000  $\chi^2$ /NDF: 195342641.6/4

All: 148.440 $\pm$ 0.000  $\chi^2$ /NDF: 217179768.2/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_ds\_rms vs Slug



Right In: 0.534+/-0.000  $\chi^2/\text{NDF}$ : 565829.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.531+/-0.000  $\chi^2/\text{NDF}$ : 523623.9/4

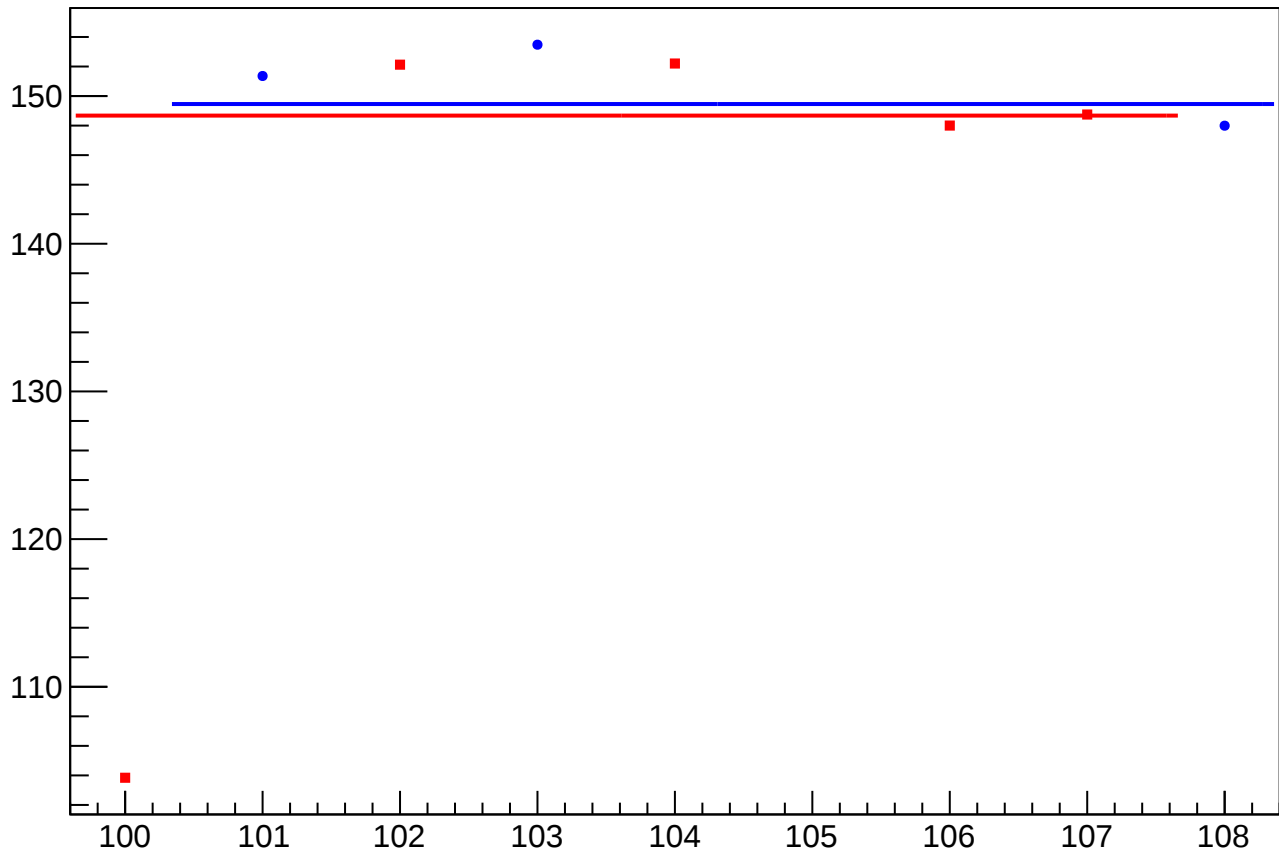
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.533+/-0.000  $\chi^2/\text{NDF}$ : 1089507.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_an\_ds3\_mean vs Slug



Right In: 149.460 $\pm$ 0.000  $\chi^2$ /NDF: 19672245.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

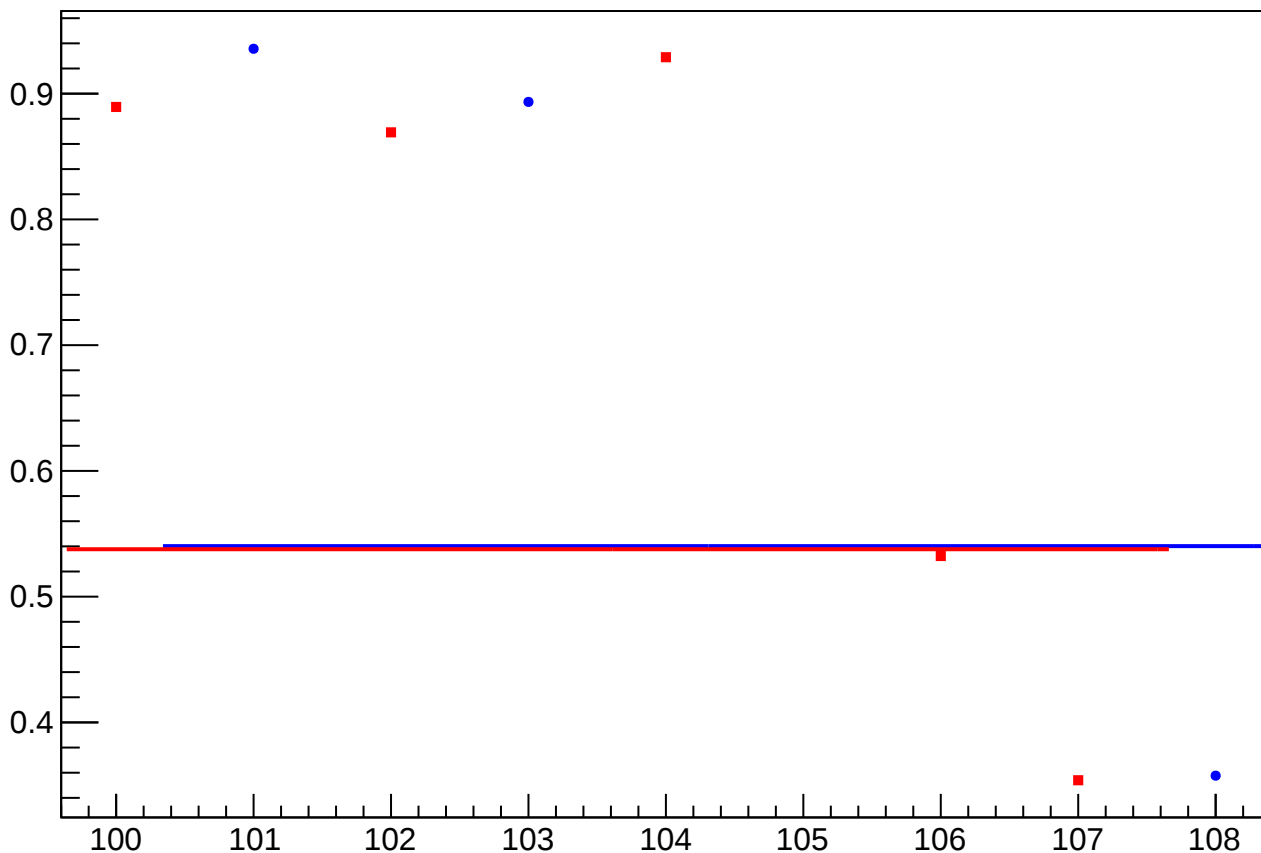
Right Out: 148.677 $\pm$ 0.000  $\chi^2$ /NDF: 193440768.8/4

All: 149.038 $\pm$ 0.000  $\chi^2$ /NDF: 214475097.6/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_ds3\_rms vs Slug



Right In: 0.540 $\pm$ 0.000  $\chi^2$ /NDF: 563926.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.538 $\pm$ 0.000  $\chi^2$ /NDF: 519137.7/4

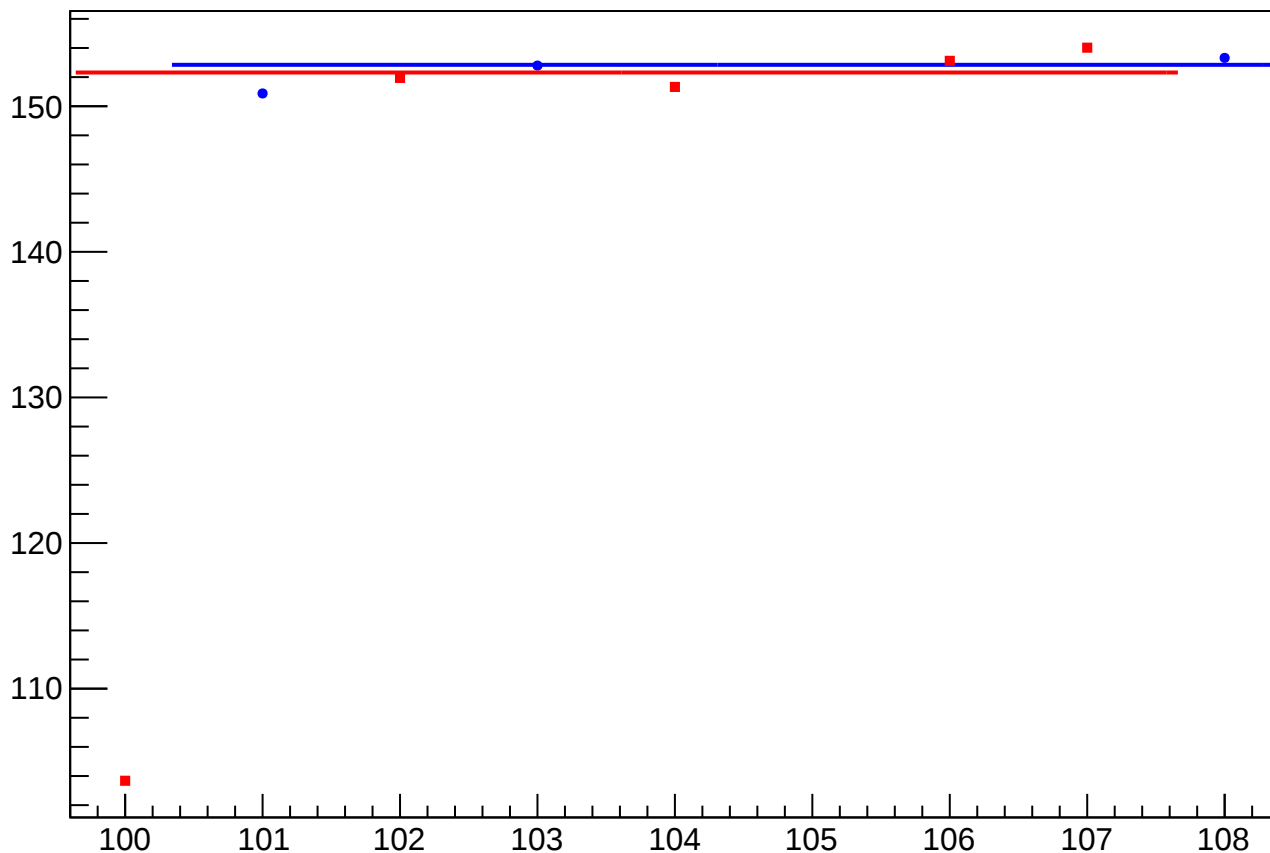
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.539 $\pm$ 0.000  $\chi^2$ /NDF: 1083091.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_us\_mean vs Slug



Right In: 152.844 $\pm$ 0.000  $\chi^2$ /NDF: 3159006.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 152.316 $\pm$ 0.000  $\chi^2$ /NDF: 221358283.9/4

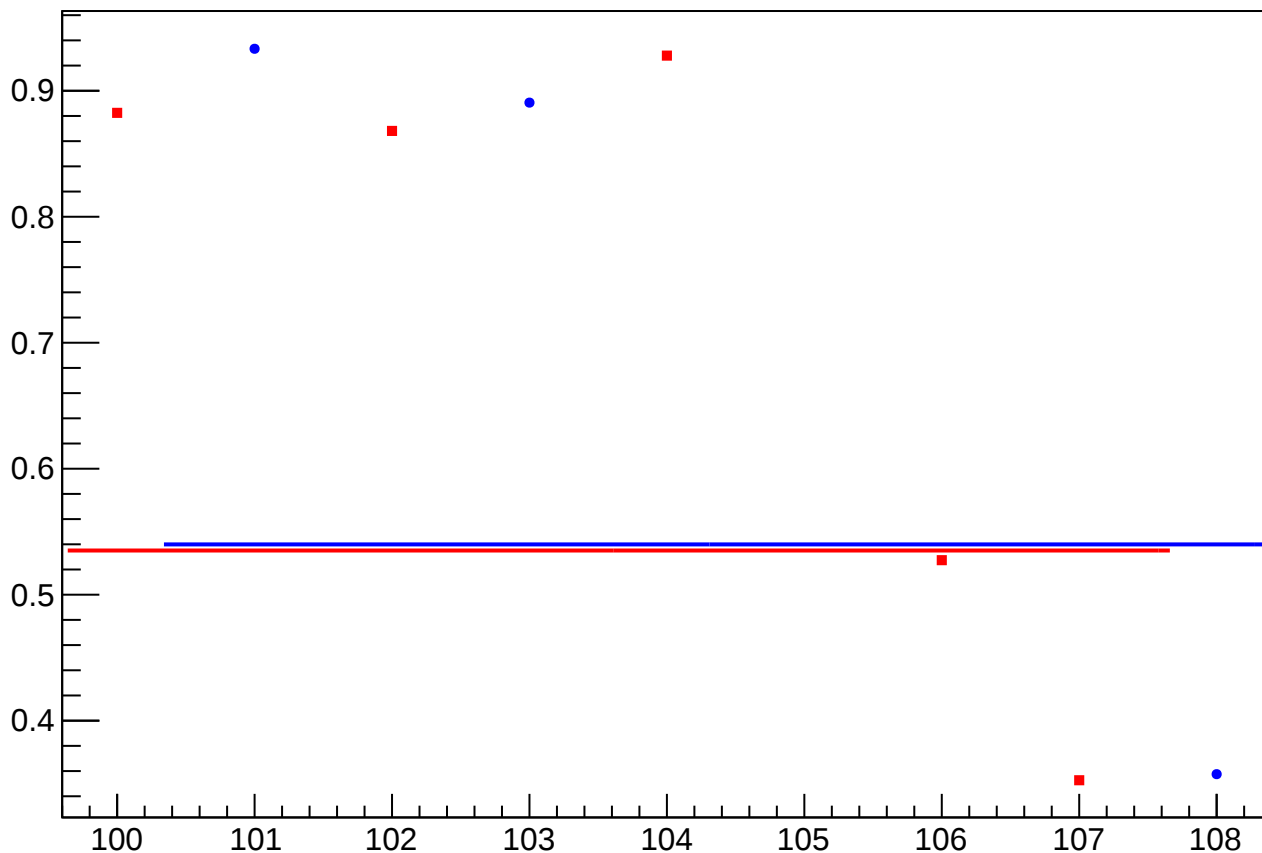
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 152.559 $\pm$ 0.000  $\chi^2$ /NDF: 225138956.8/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_an\_us\_rms vs Slug



Right In: 0.540 $\pm$ 0.000  $\chi^2$ /NDF: 561114.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.535 $\pm$ 0.000  $\chi^2$ /NDF: 521616.9/4

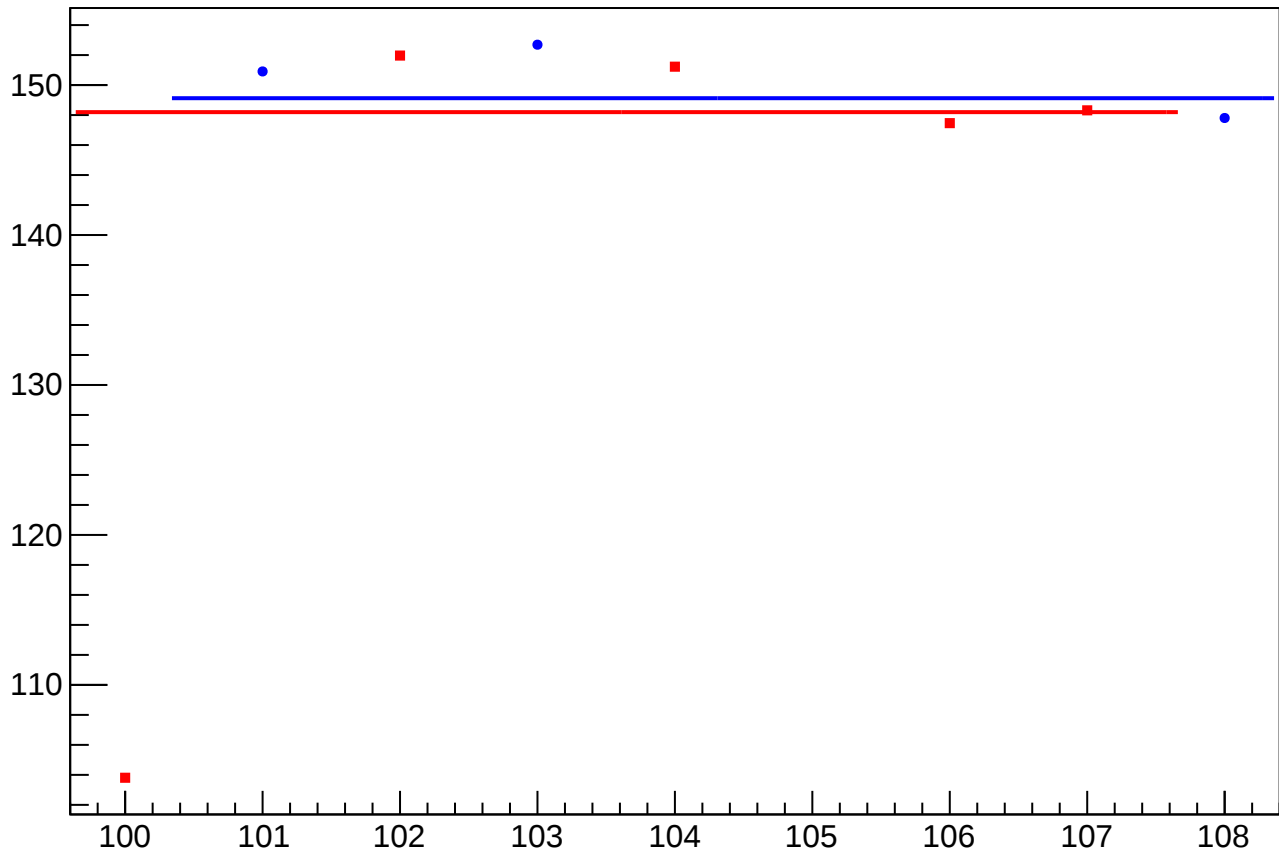
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.537 $\pm$ 0.000  $\chi^2$ /NDF: 1082836.6/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_dg\_us\_mean vs Slug



Right In: 149.124 $\pm$ 0.000  $\chi^2$ /NDF: 15807988.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

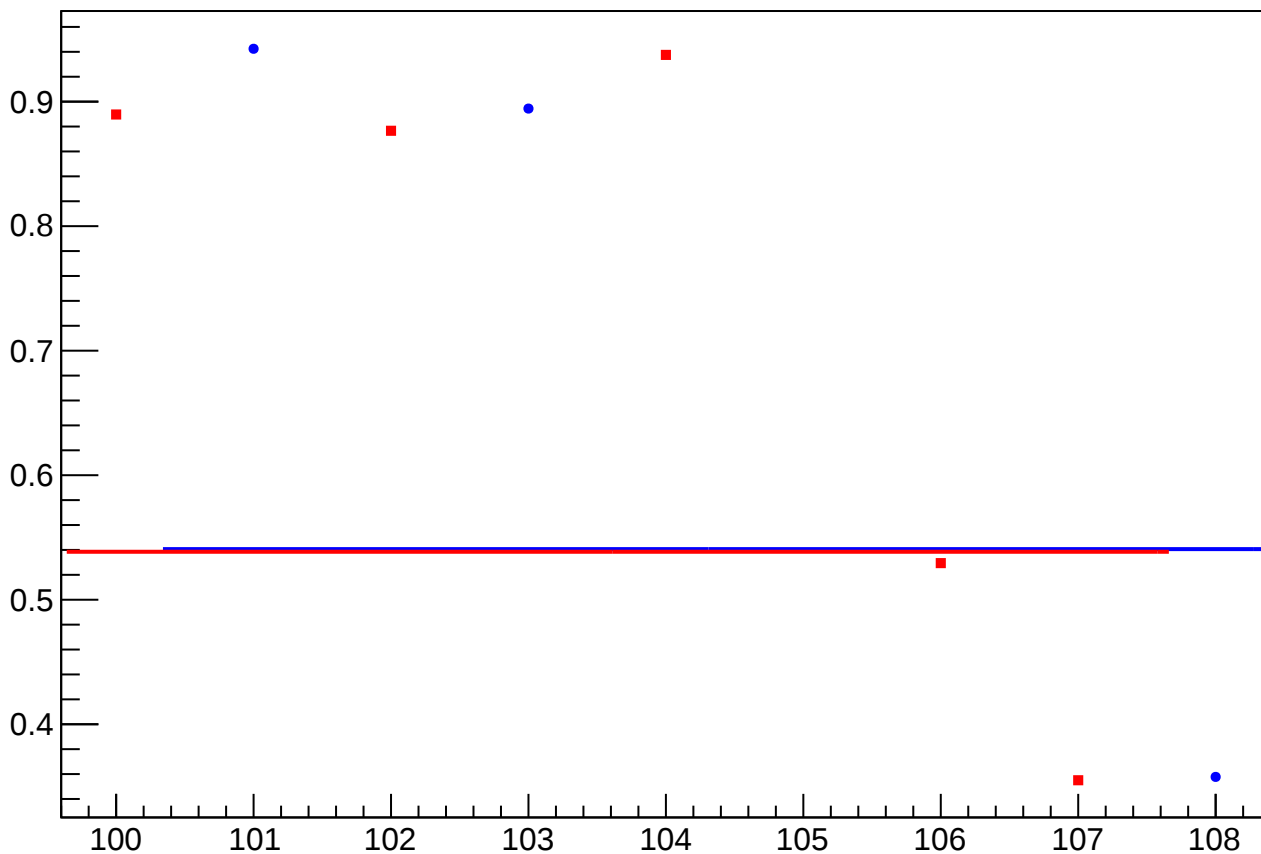
Right Out: 148.195 $\pm$ 0.000  $\chi^2$ /NDF: 189534184.4/4

All: 148.624 $\pm$ 0.000  $\chi^2$ /NDF: 207252070.6/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_dg\_us\_rms vs Slug



Right In: 0.541 $\pm$ 0.000  $\chi^2$ /NDF: 568165.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.539 $\pm$ 0.000  $\chi^2$ /NDF: 525226.9/4

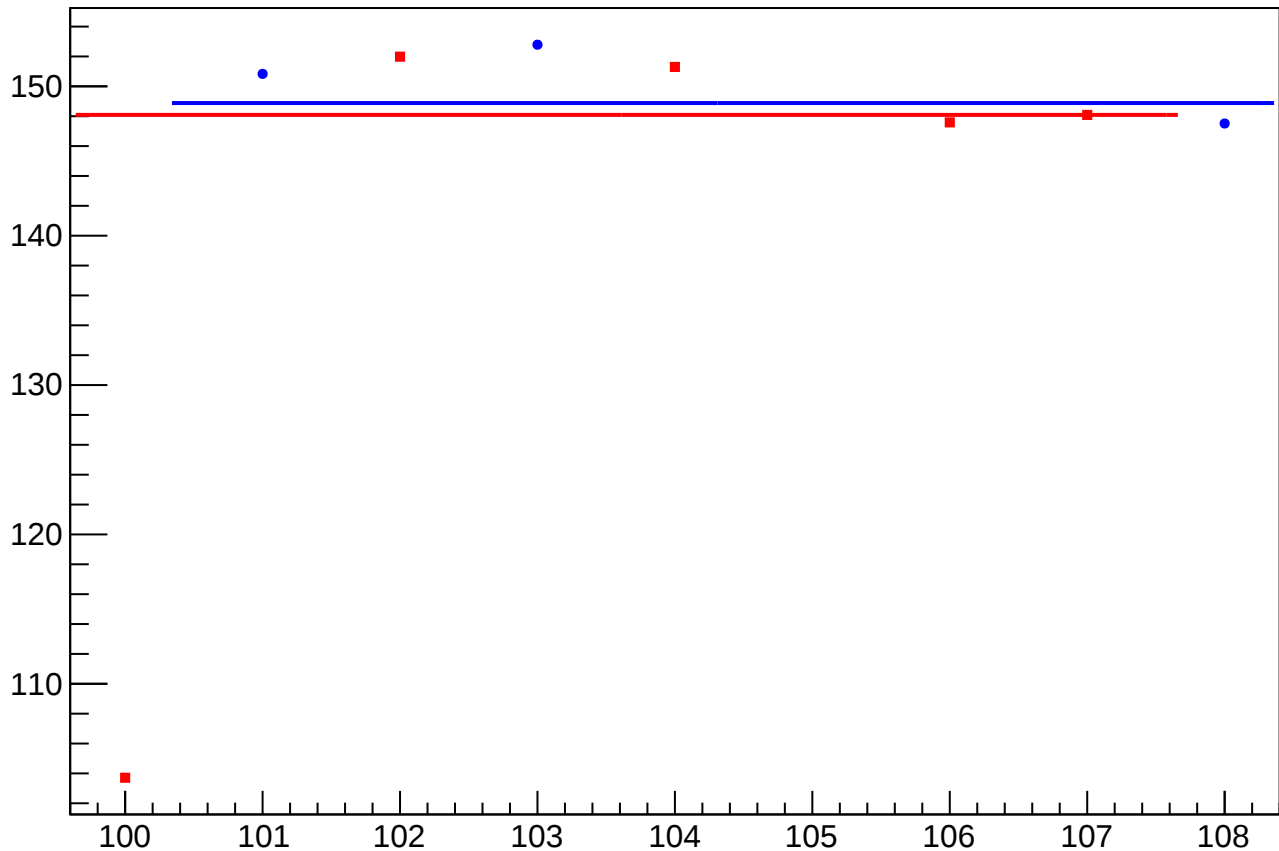
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.540 $\pm$ 0.000  $\chi^2$ /NDF: 1093412.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bcm\_dg\_ds\_mean vs Slug



Right In: 148.881+/-0.000  $\chi^2/\text{NDF}$ : 18377222.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

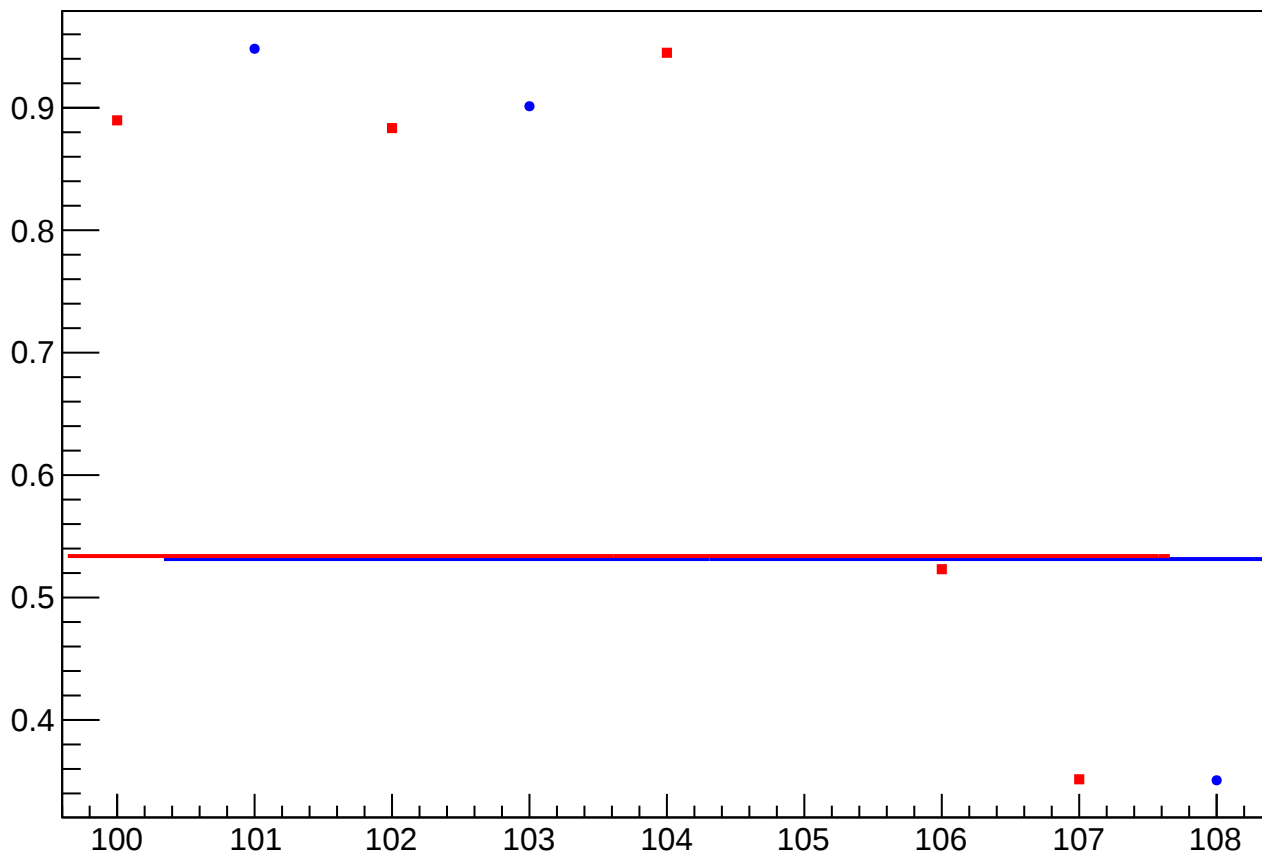
Right Out: 148.087+/-0.000  $\chi^2/\text{NDF}$ : 190261403.5/4

All: 148.456+/-0.000  $\chi^2/\text{NDF}$ : 210057098.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm\_dg\_ds\_rms vs Slug



Right In: 0.531+/-0.000  $\chi^2/\text{NDF}$ : 597262.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.534+/-0.000  $\chi^2/\text{NDF}$ : 542944.7/4

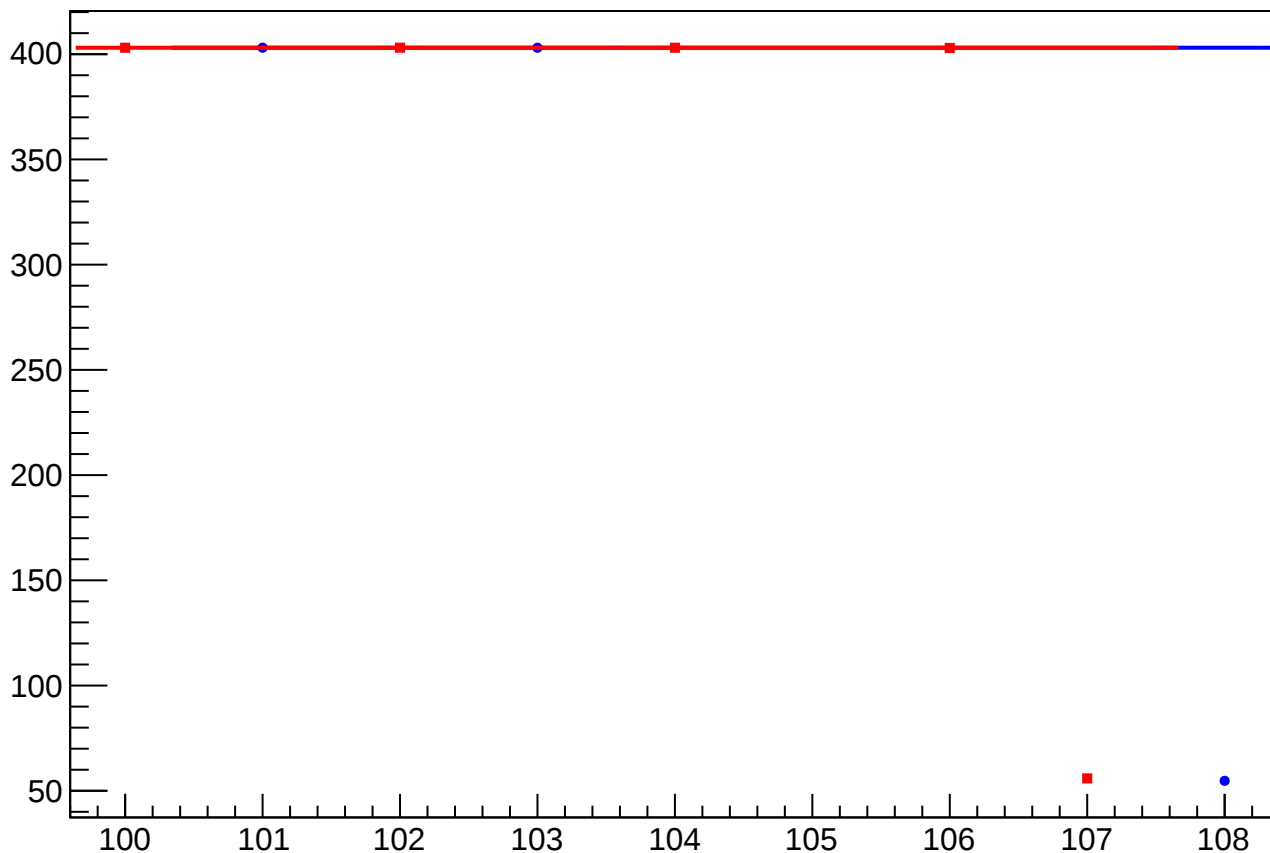
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.533+/-0.000  $\chi^2/\text{NDF}$ : 1140234.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4bQ\_mean vs Slug



Right In: 403.078 $\pm$ 0.000  $\chi^2$ /NDF: 126338131571.0/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

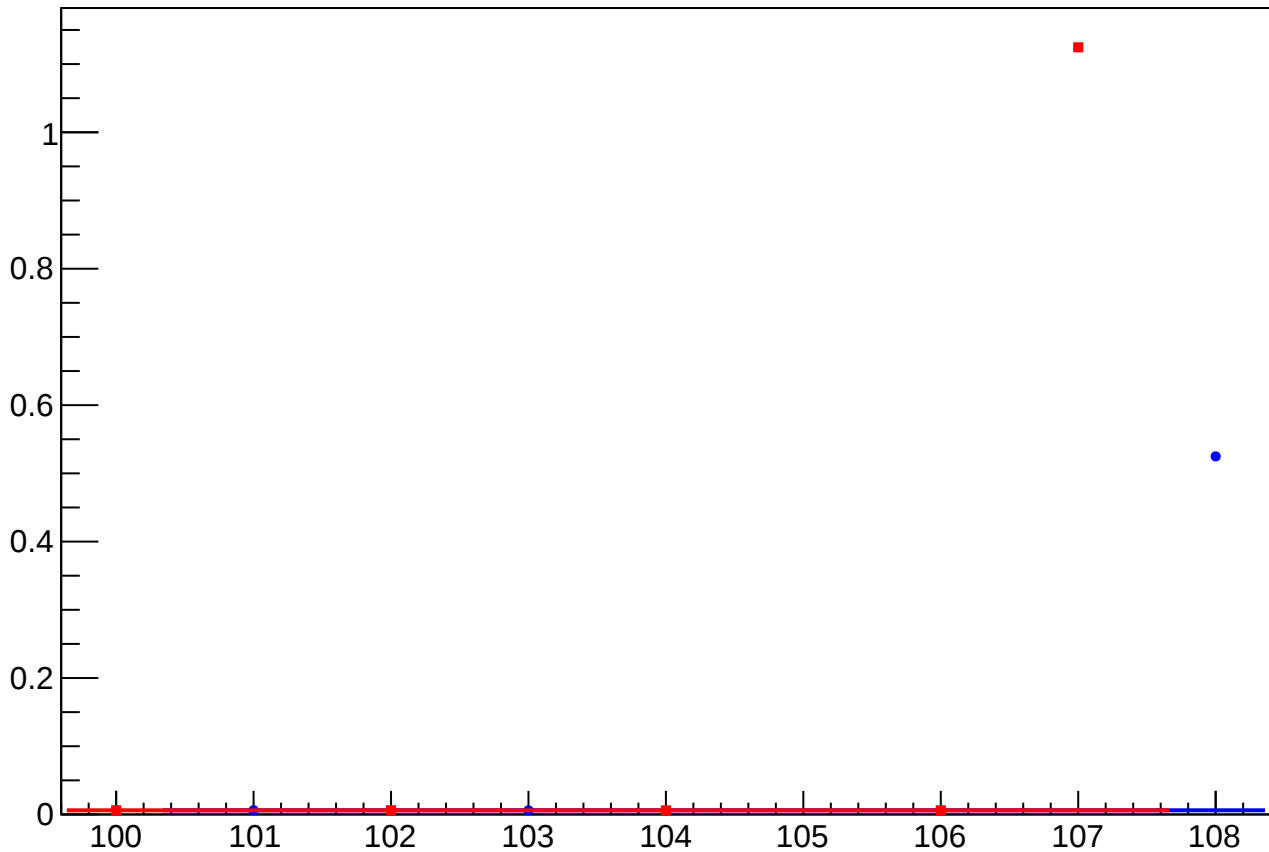
Right Out: 403.069 $\pm$ 0.000  $\chi^2$ /NDF: 22979239575.4/4

All: 403.073 $\pm$ 0.000  $\chi^2$ /NDF: 149318736852.0/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4bQ\_rms vs Slug



Right In: 0.006 $\pm$ 0.000  $\chi^2$ /NDF: 561368.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.006 $\pm$ 0.000  $\chi^2$ /NDF: 476237.6/4

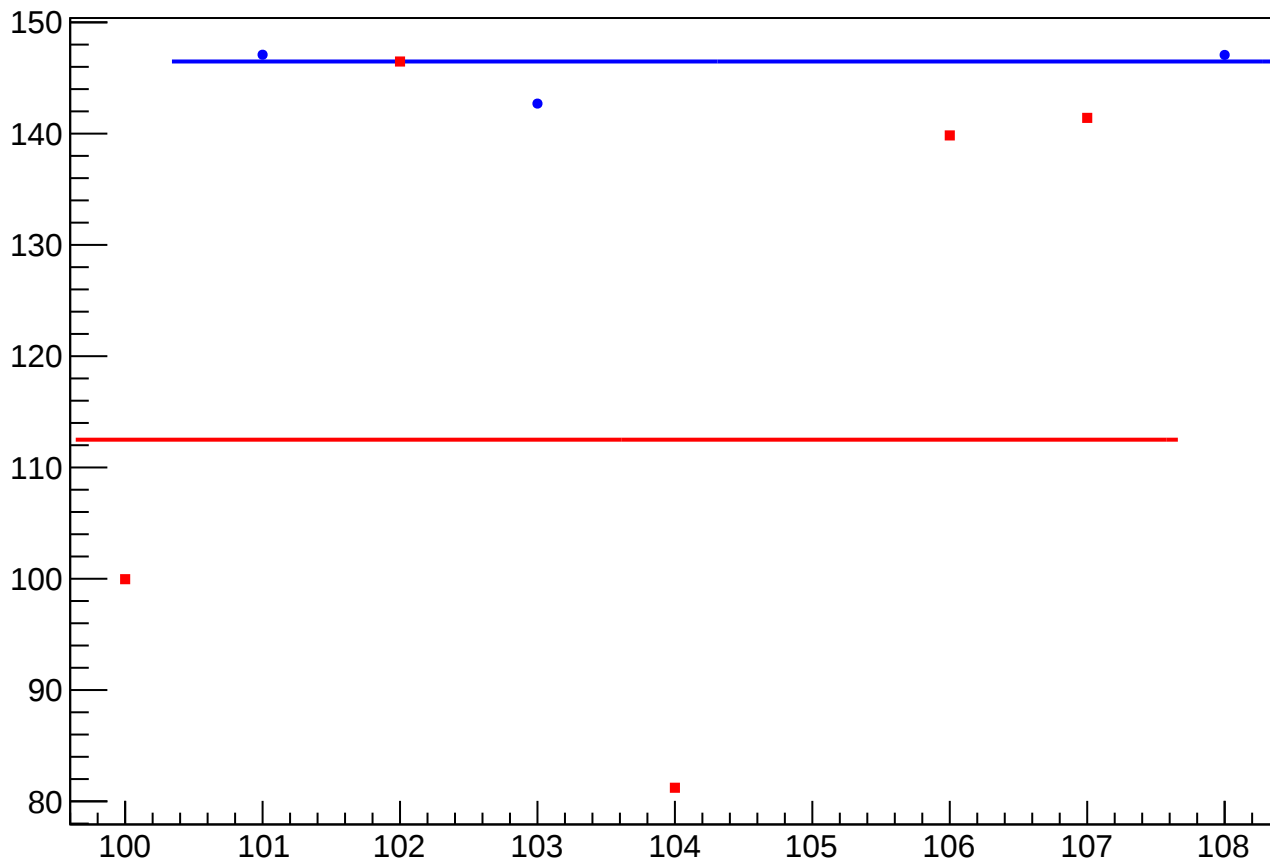
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.006 $\pm$ 0.000  $\chi^2$ /NDF: 1037644.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4cQ\_mean vs Slug



Right In: 146.482 $\pm$ 0.003  $\chi^2$ /NDF: 332566.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 112.497 $\pm$ 0.003  $\chi^2$ /NDF: 97121202.8/4

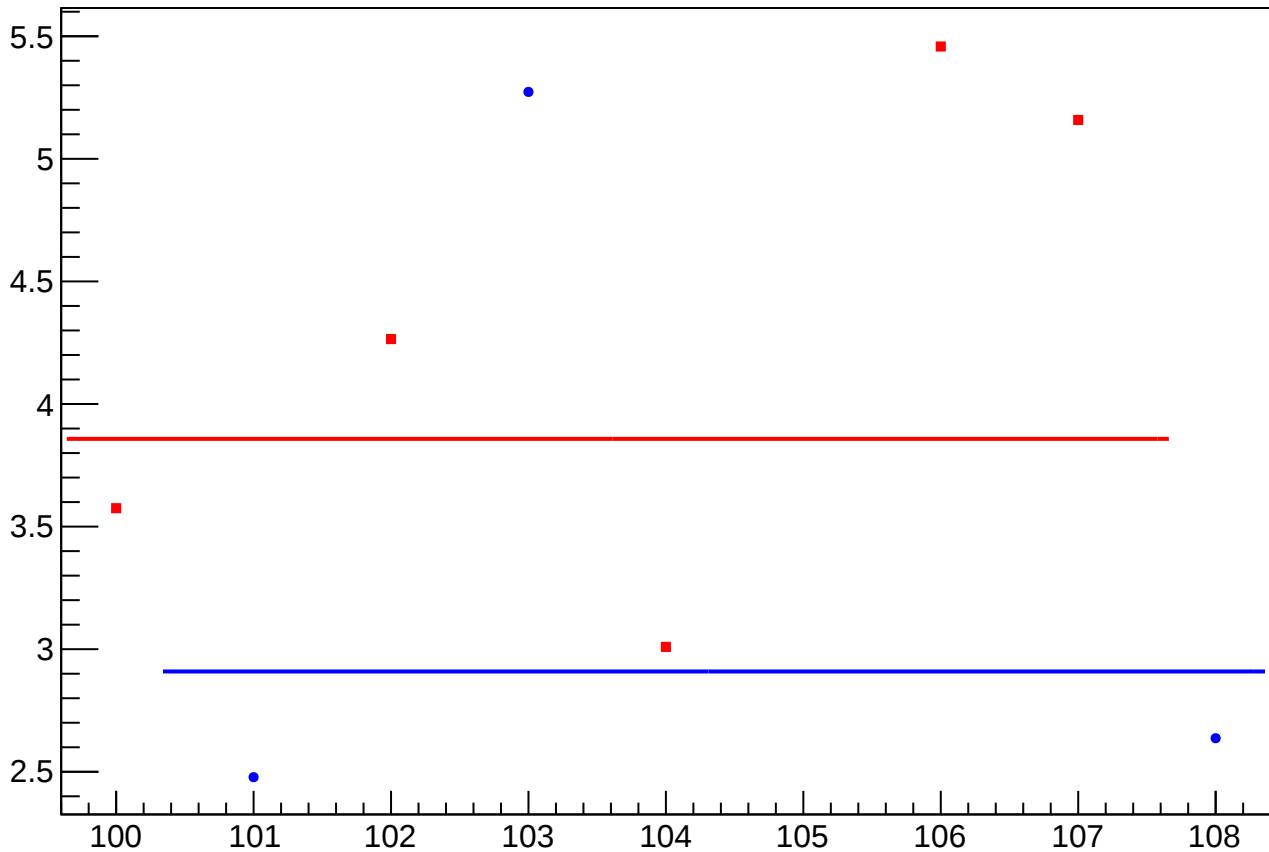
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 132.439 $\pm$ 0.002  $\chi^2$ /NDF: 167060290.5/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4cQ\_rms vs Slug



Right In: 2.909 $\pm$ 0.002  $\chi^2$ /NDF: 261174.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3.858 $\pm$ 0.002  $\chi^2$ /NDF: 167097.2/4

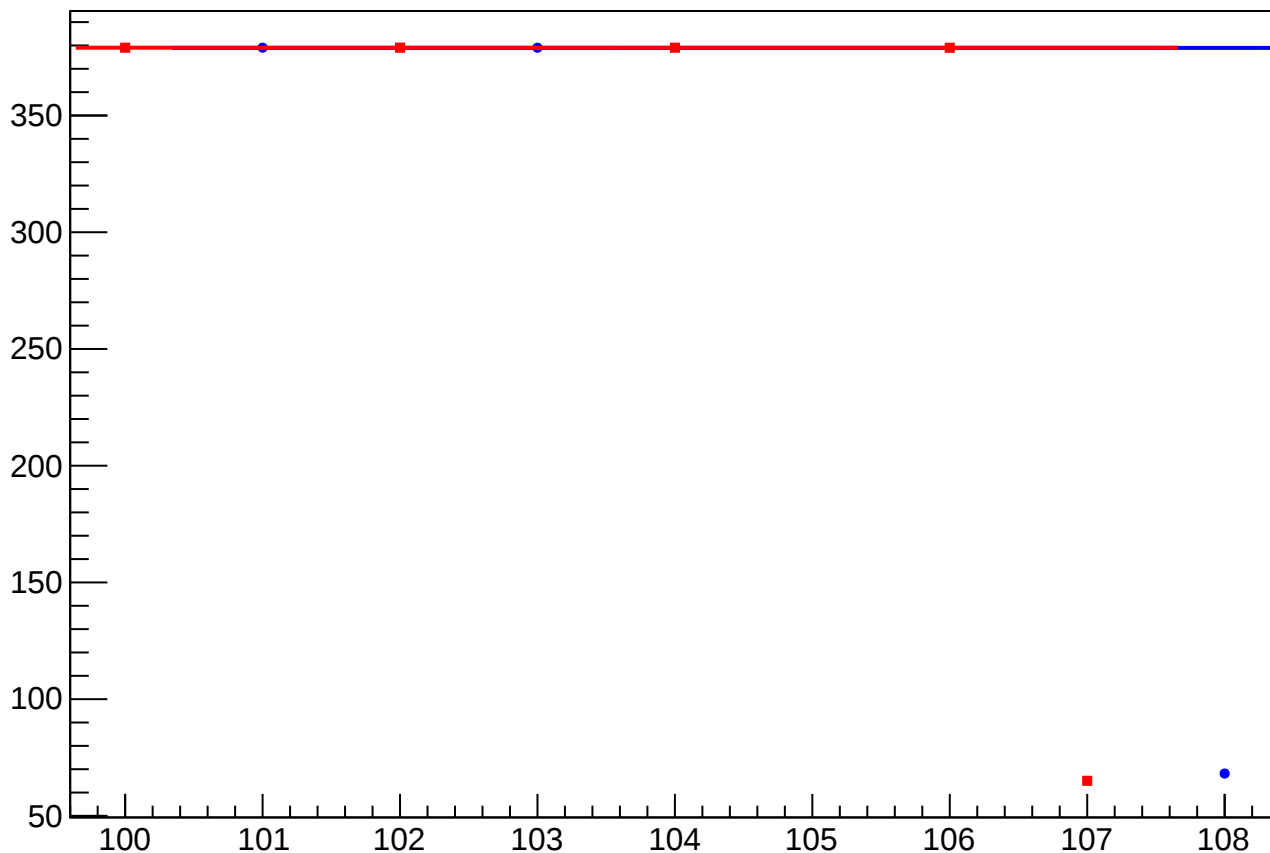
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.301 $\pm$ 0.001  $\chi^2$ /NDF: 536751.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4dQ\_mean vs Slug



Right In: 378.953+/-0.000  $\chi^2/\text{NDF}$ : 409921801236.7/2

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

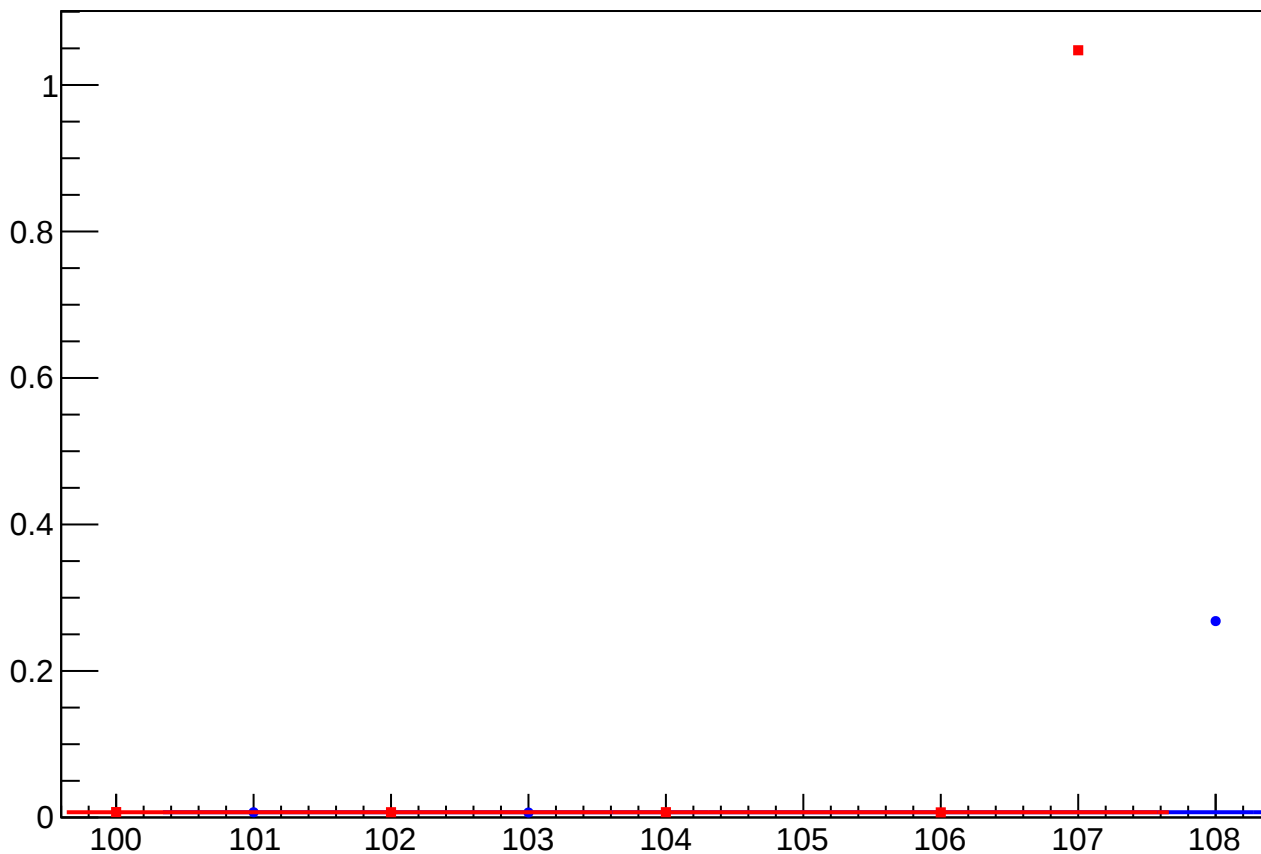
Right Out: 379.039+/-0.000  $\chi^2/\text{NDF}$ : 22705703727.8/4

All: 378.999+/-0.000  $\chi^2/\text{NDF}$ : 43267911758.0/6

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dQ\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 578257.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 498669.3/4

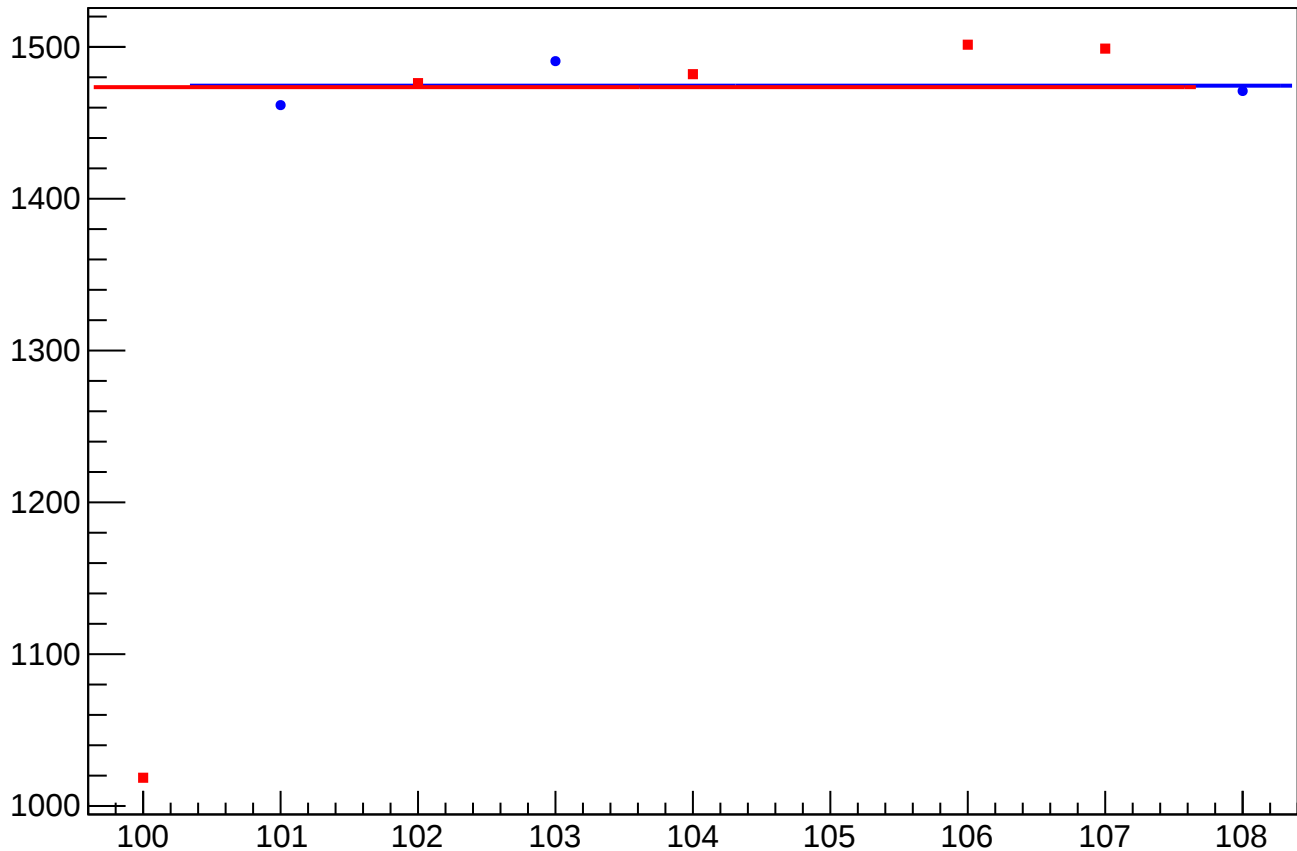
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1076934.7/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_bcm0l02\_mean vs Slug



Right In: 1474.471+/-0.009  $\chi^2/\text{NDF}$ : 1760269.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

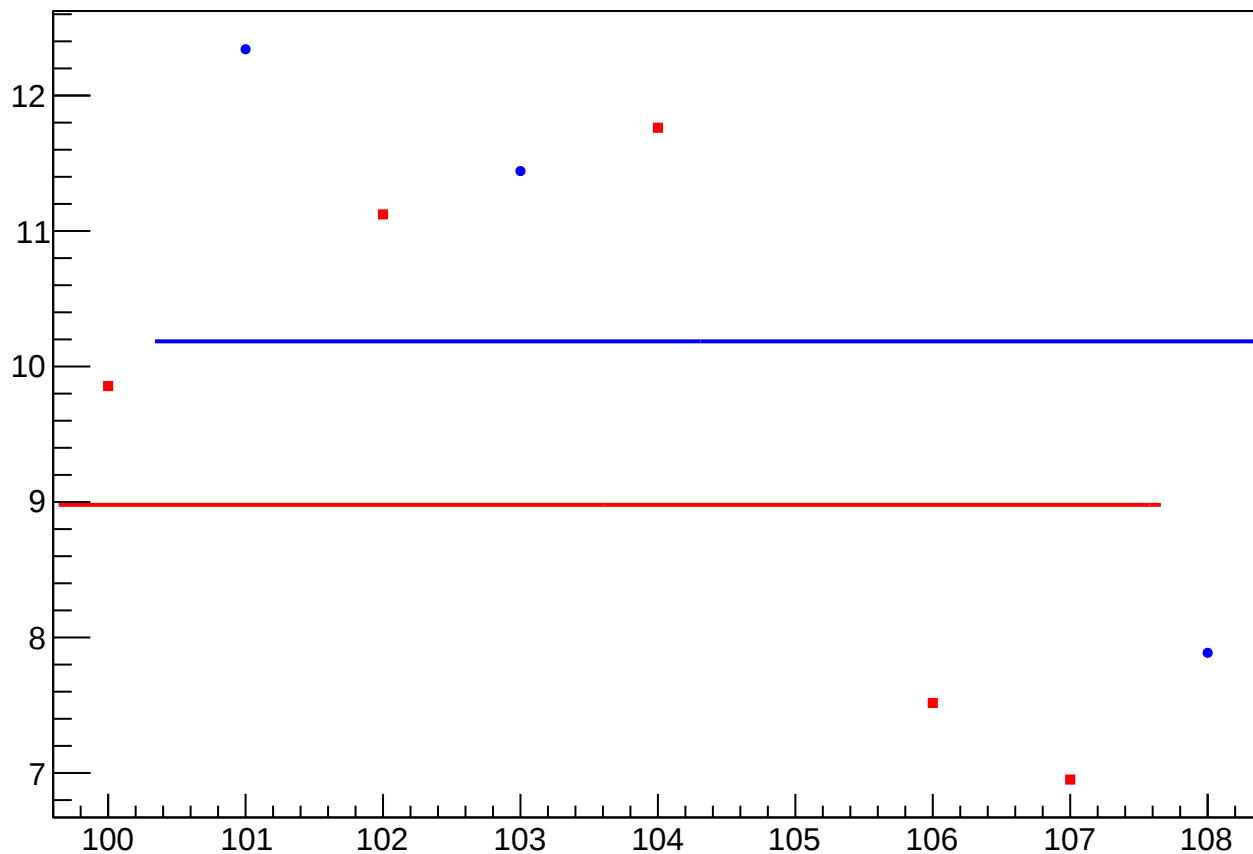
Right Out: 1473.499+/-0.007  $\chi^2/\text{NDF}$ : 152321271.9/4

All: 1473.907+/-0.006  $\chi^2/\text{NDF}$ : 154088979.4

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bcm0l02\_rms vs Slug



Right In: 10.186 $\pm$ 0.006  $\chi^2$ /NDF: 107915.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 8.979 $\pm$ 0.005  $\chi^2$ /NDF: 160771.5/4

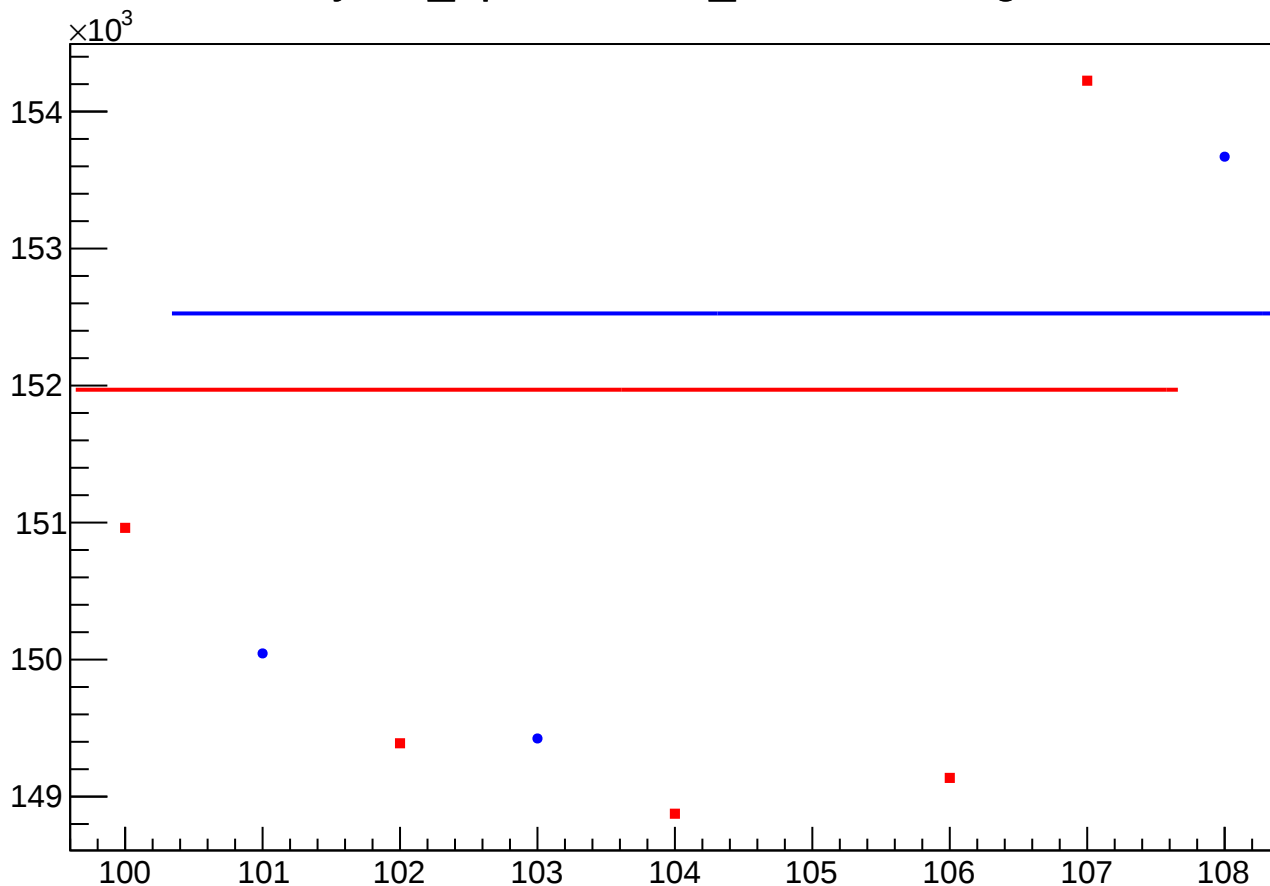
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 9.485 $\pm$ 0.004  $\chi^2$ /NDF: 291634.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01WS\_mean vs Slug



Right In: 152526.413 $\pm$ 0.200  $\chi^2$ /NDF: 79733838.2/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

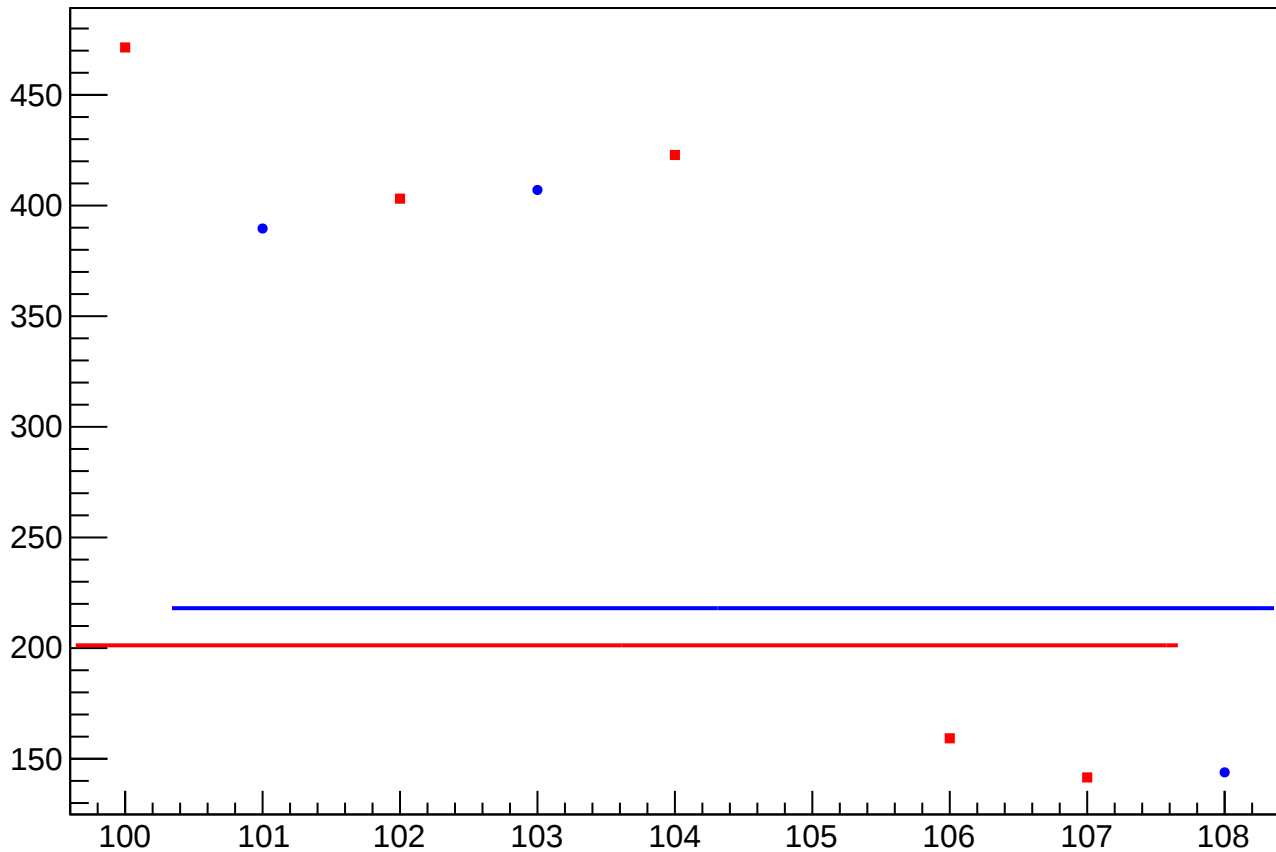
Right Out: 151969.666 $\pm$ 0.178  $\chi^2$ /NDF: 200521173.1/4

All: 152214.639 $\pm$ 0.133  $\chi^2$ /NDF: 284580624

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01WS\_rms vs Slug



Right In: 218.049 $\pm$ 0.142  $\chi^2$ /NDF: 665653.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 201.268 $\pm$ 0.126  $\chi^2$ /NDF: 742050.4/4

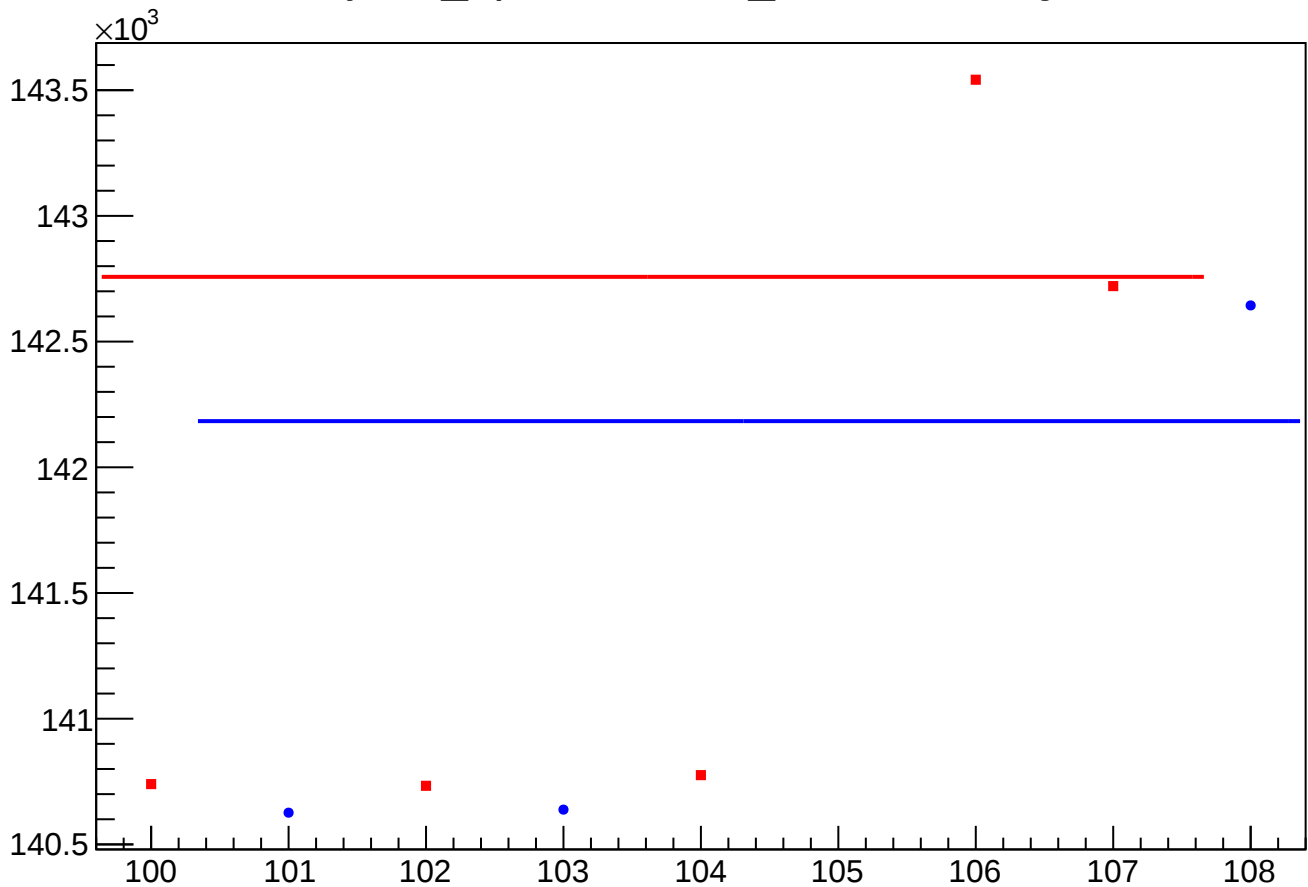
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 208.652 $\pm$ 0.094  $\chi^2$ /NDF: 1415563.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01aWS\_mean vs Slug



Right In: 142183.640 $\pm$ 0.165  $\chi^2$ /NDF: 26326450.8/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

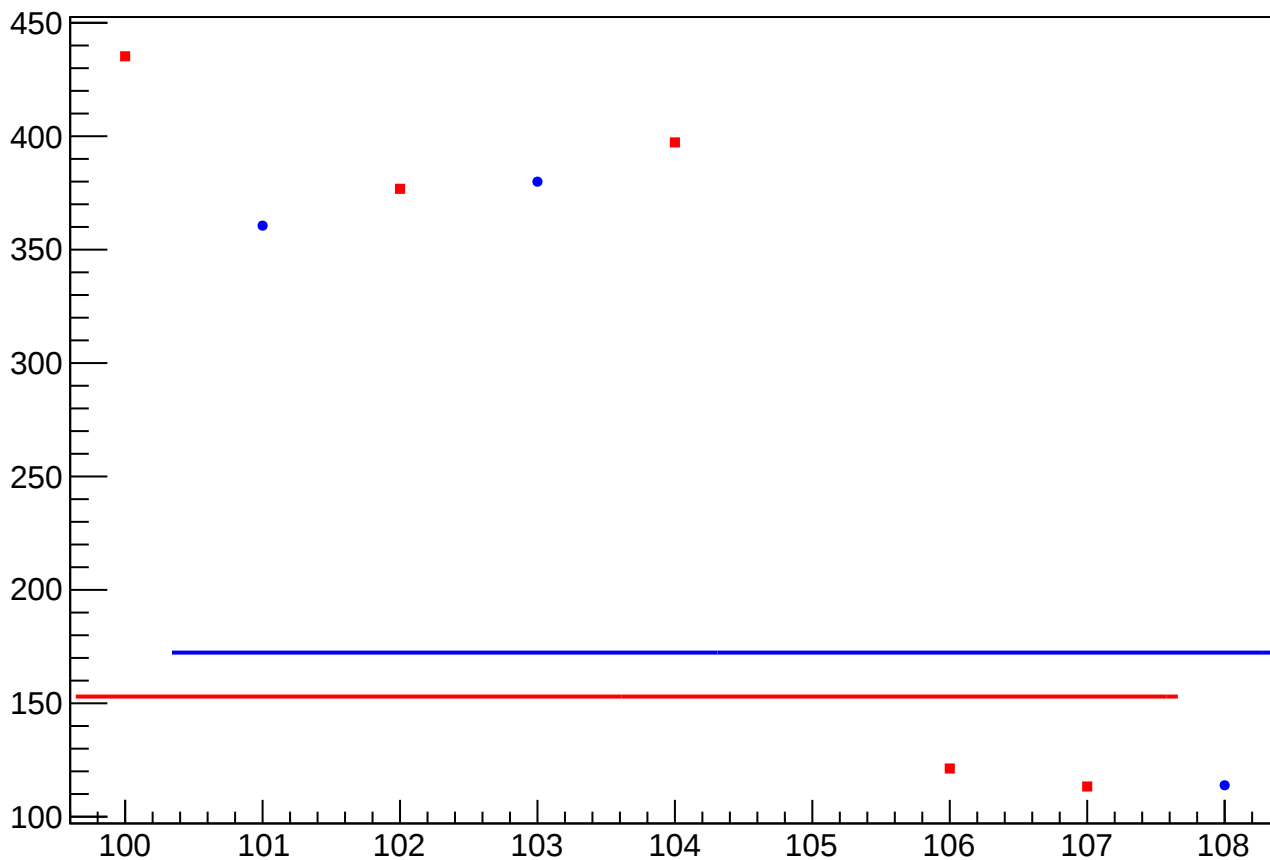
All: 142526.853 $\pm$ 0.104  $\chi^2$ /NDF: 75436853.

Right Out: 142757.487 $\pm$ 0.135  $\chi^2$ /NDF: 41850029.2/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01aWS\_rms vs Slug



Right In: 172.357 $\pm$ 0.116  $\chi^2$ /NDF: 852066.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 152.979 $\pm$ 0.095  $\chi^2$ /NDF: 942642.2/4

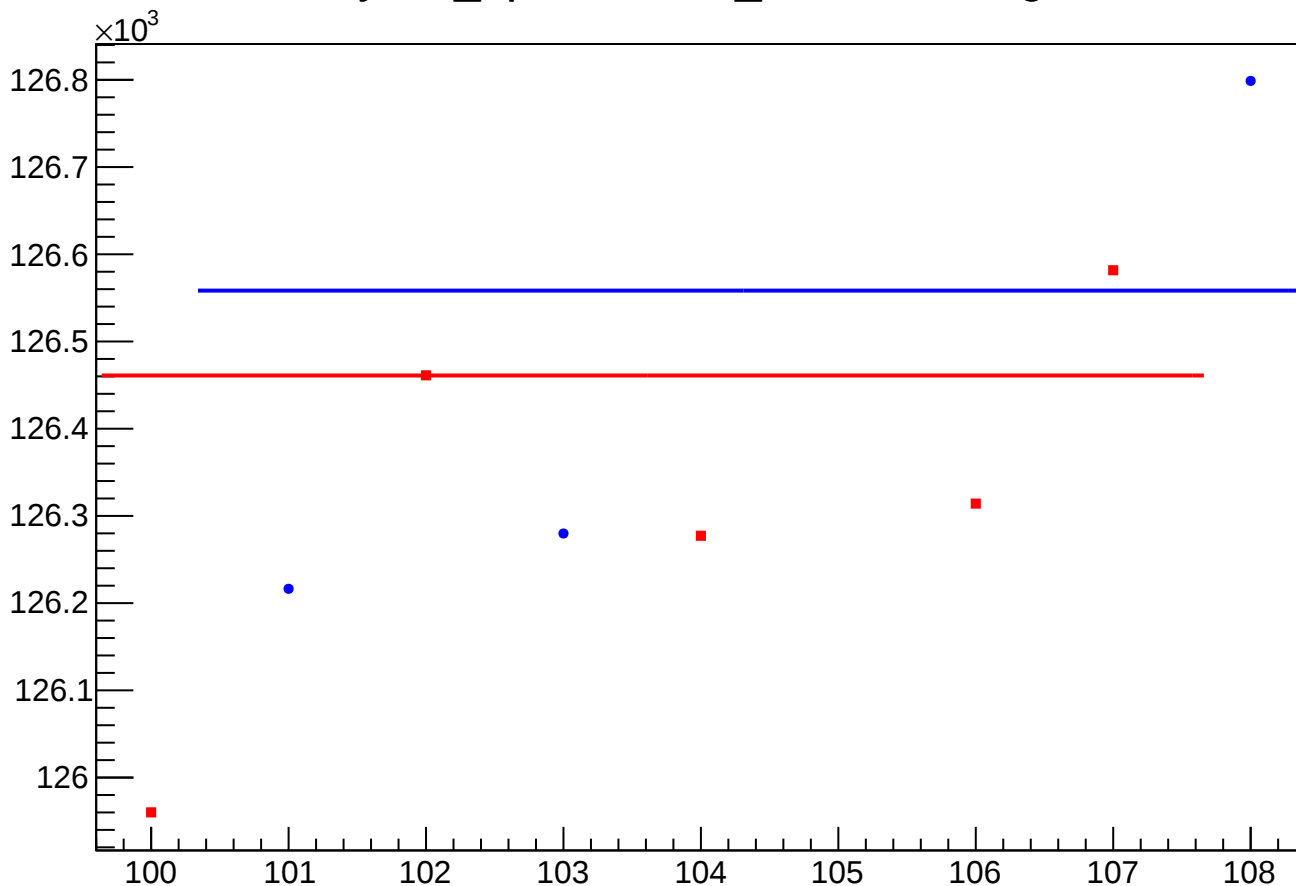
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 160.767 $\pm$ 0.074  $\chi^2$ /NDF: 1811266.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l01WS\_mean vs Slug



Right In: 126558.340 $\pm$ 0.188  $\chi^2$ /NDF: 2125219.8/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

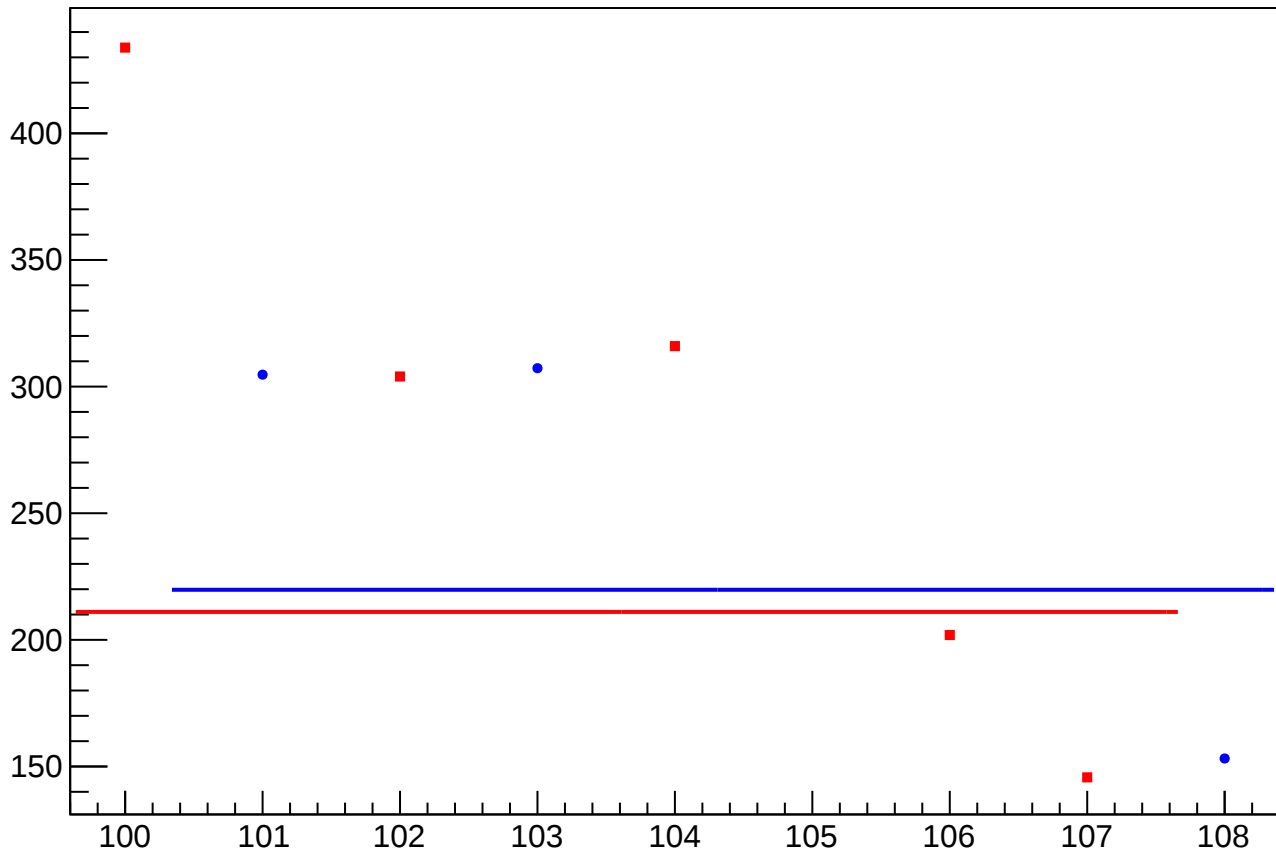
All: 126505.036 $\pm$ 0.127  $\chi^2$ /NDF: 2910400.7

Right Out: 126461.017 $\pm$ 0.171  $\chi^2$ /NDF: 638657.8/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l01WS\_rms vs Slug



Right In: 219.777 $\pm$ 0.133  $\chi^2$ /NDF: 324320.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 211.038 $\pm$ 0.121  $\chi^2$ /NDF: 390995.6/4

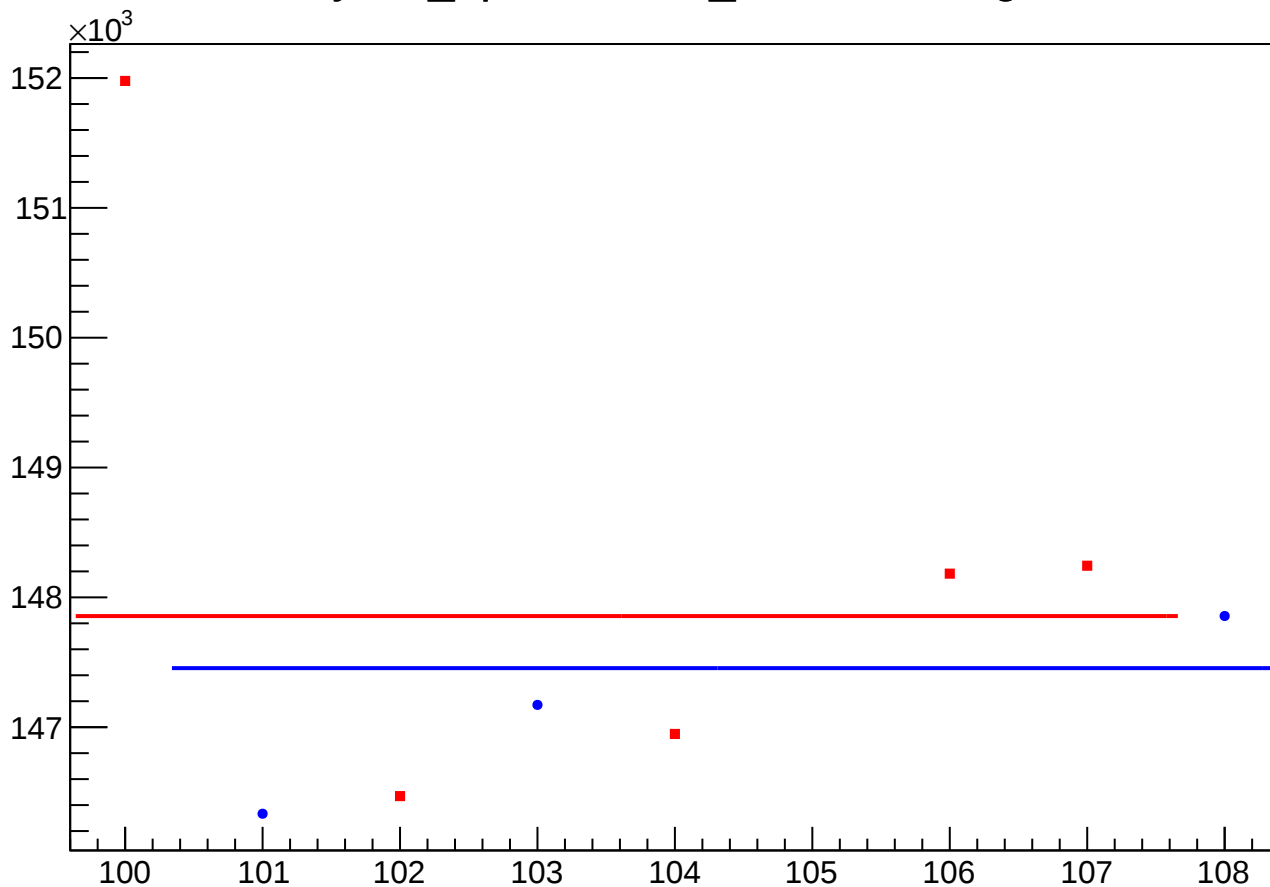
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 214.990 $\pm$ 0.089  $\chi^2$ /NDF: 717679.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l02WS\_mean vs Slug



Right In: 147454.854 $\pm$ 0.232  $\chi^2$ /NDF: 6508287.8/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

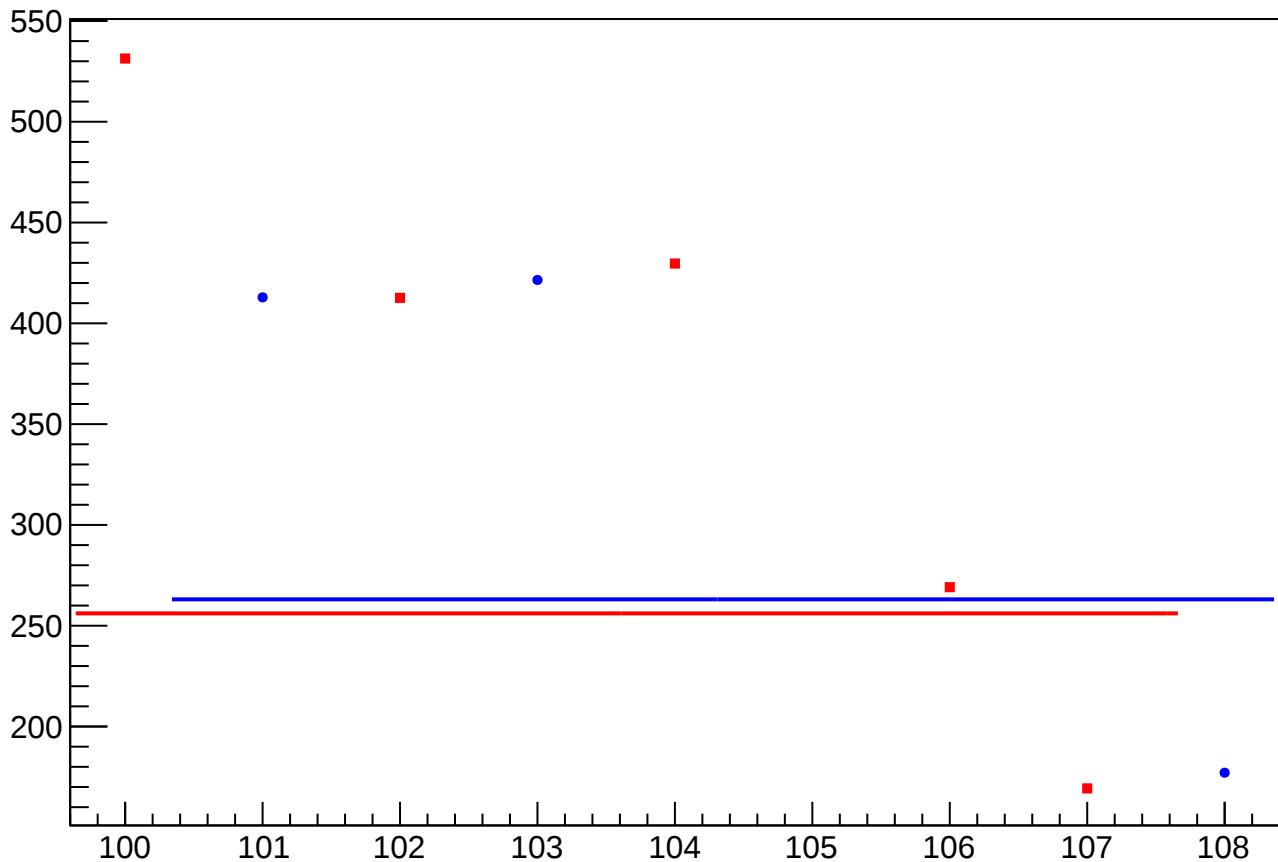
Right Out: 147855.869 $\pm$ 0.215  $\chi^2$ /NDF: 14782603.1/4

All: 147671.233 $\pm$ 0.158  $\chi^2$ /NDF: 22896586.0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l02WS\_rms vs Slug



Right In: 263.087 $\pm$ 0.164  $\chi^2$ /NDF: 490148.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 256.121 $\pm$ 0.152  $\chi^2$ /NDF: 542706.8/4

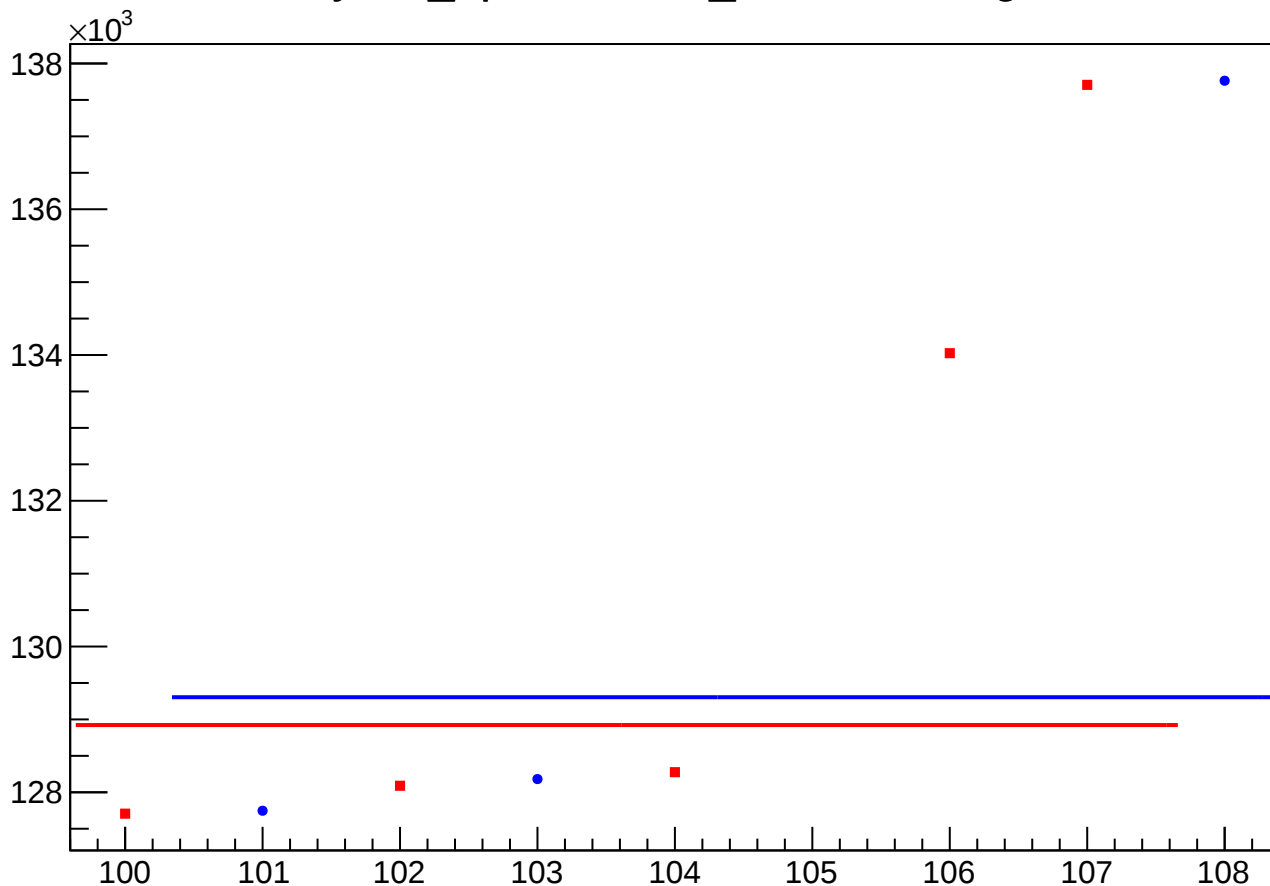
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 259.328 $\pm$ 0.112  $\chi^2$ /NDF: 1033824.2/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l03WS\_mean vs Slug



Right In: 129304.492 $\pm$ 0.273  $\chi^2$ /NDF: 153424750.8/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

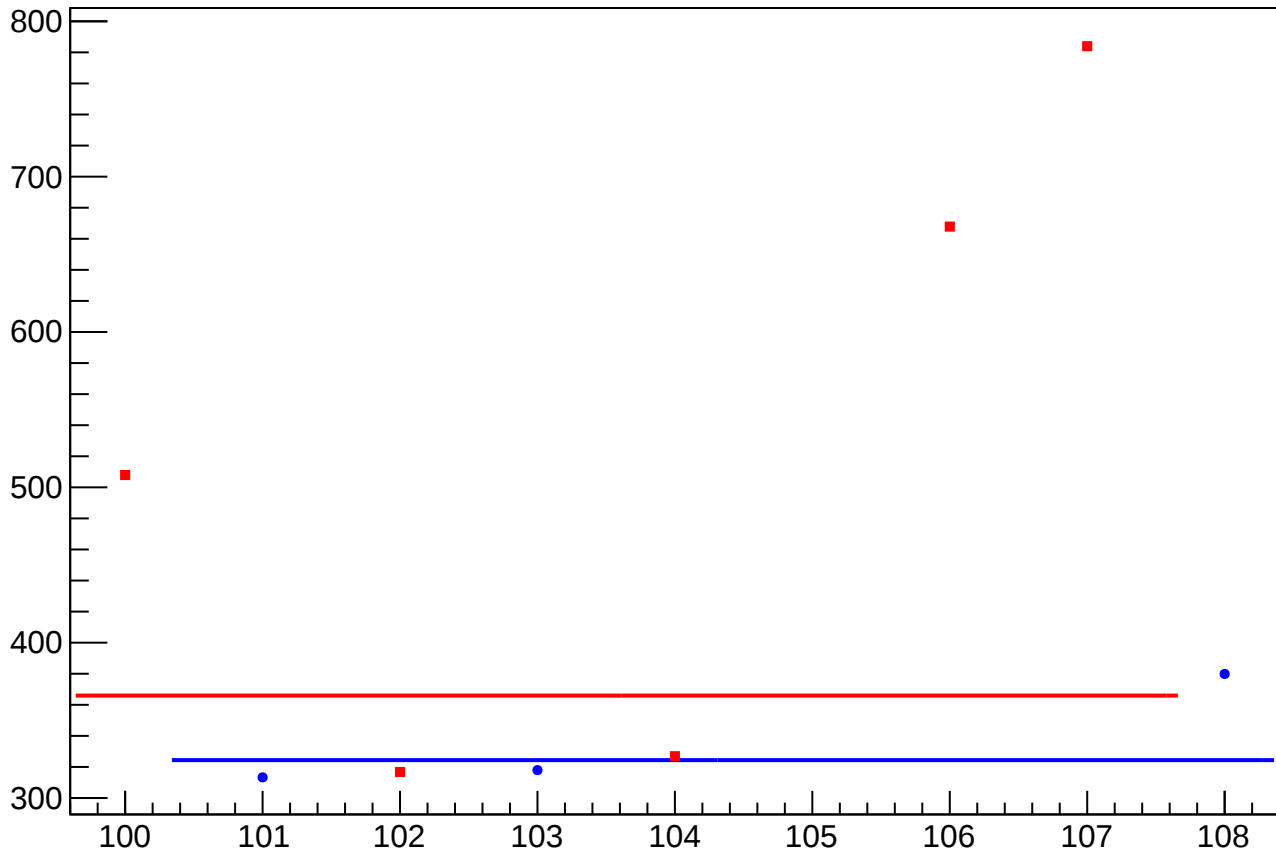
Right Out: 128922.799 $\pm$ 0.296  $\chi^2$ /NDF: 62682890.9/4

All: 129128.982 $\pm$ 0.201  $\chi^2$ /NDF: 217005941

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l03WS\_rms vs Slug



Right In: 324.392+/-0.193  $\chi^2/\text{NDF}$ : 13281.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 365.939+/-0.209  $\chi^2/\text{NDF}$ : 347788.7/4

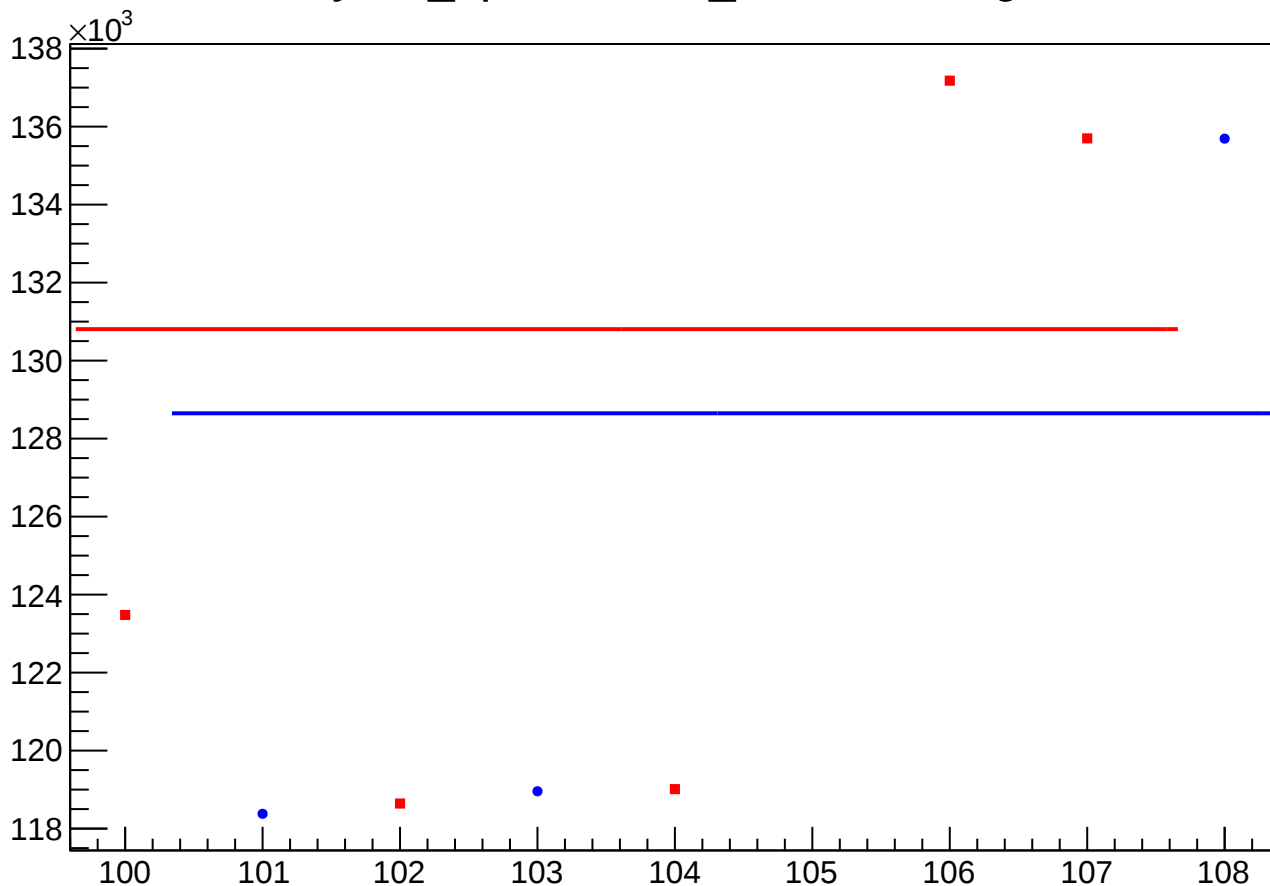
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 343.496+/-0.142  $\chi^2/\text{NDF}$ : 382356.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04WS\_mean vs Slug



Right In: 128649.088 $\pm$ 0.200  $\chi^2$ /NDF: 1757608671.1/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

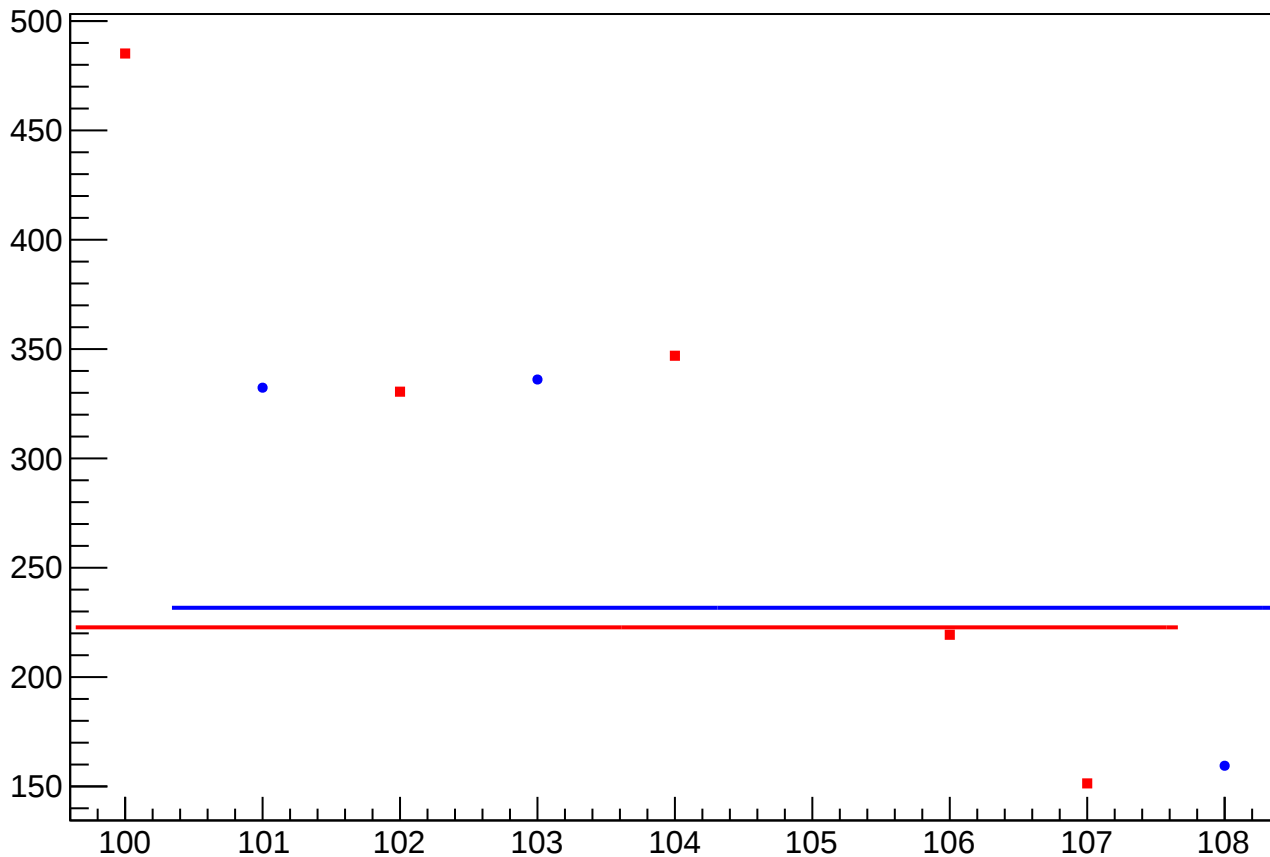
Right Out: 130806.660 $\pm$ 0.181  $\chi^2$ /NDF: 1919801079.0/4

All: 129834.029 $\pm$ 0.134  $\chi^2$ /NDF: 374125068

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l04WS\_rms vs Slug



Right In: 231.696+/-0.142  $\chi^2/\text{NDF}$ : 369732.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 222.745+/-0.128  $\chi^2/\text{NDF}$ : 440973.8/4

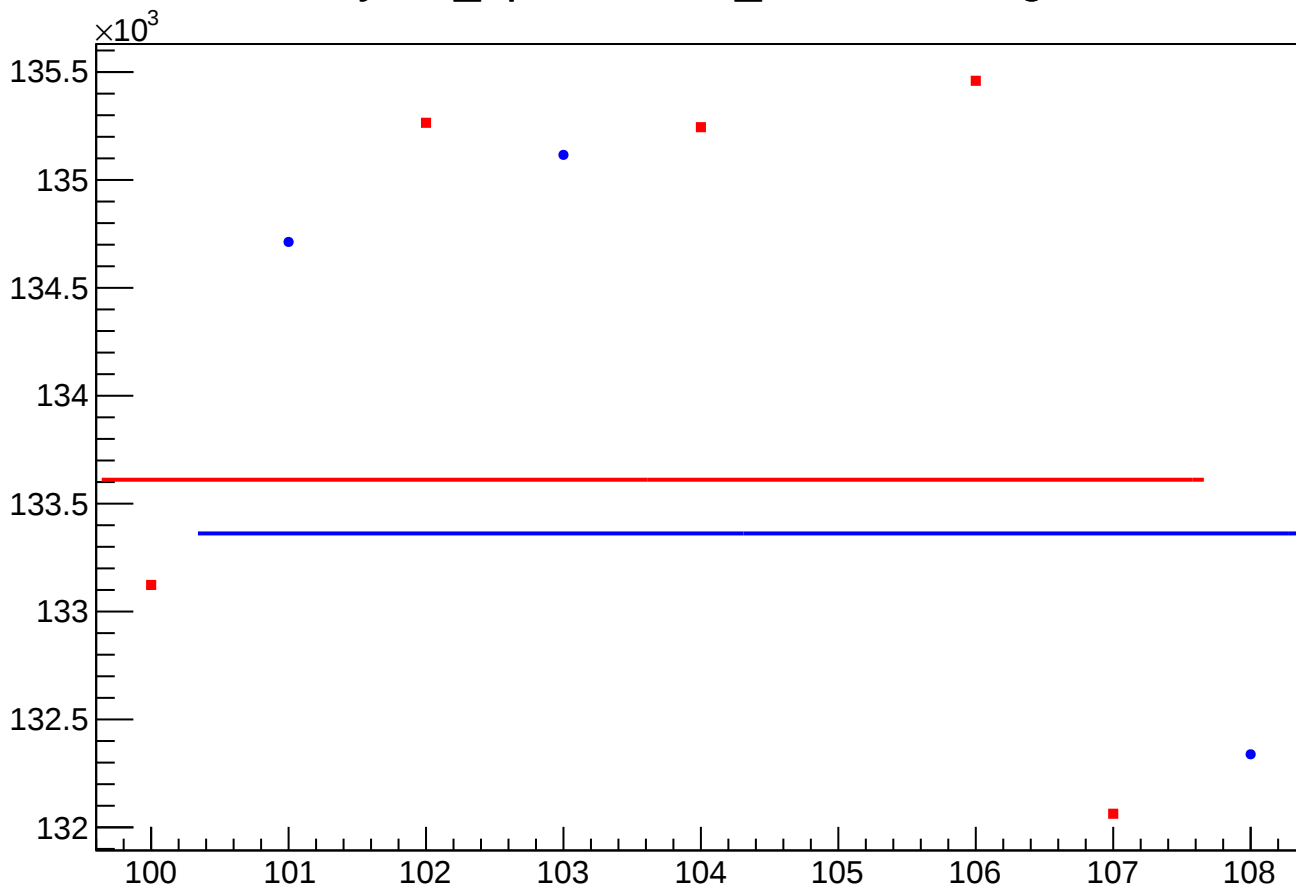
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 226.780+/-0.095  $\chi^2/\text{NDF}$ : 812904.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l05WS\_mean vs Slug



Right In: 133361.977 $\pm$ 0.214  $\chi^2$ /NDF: 34842374.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

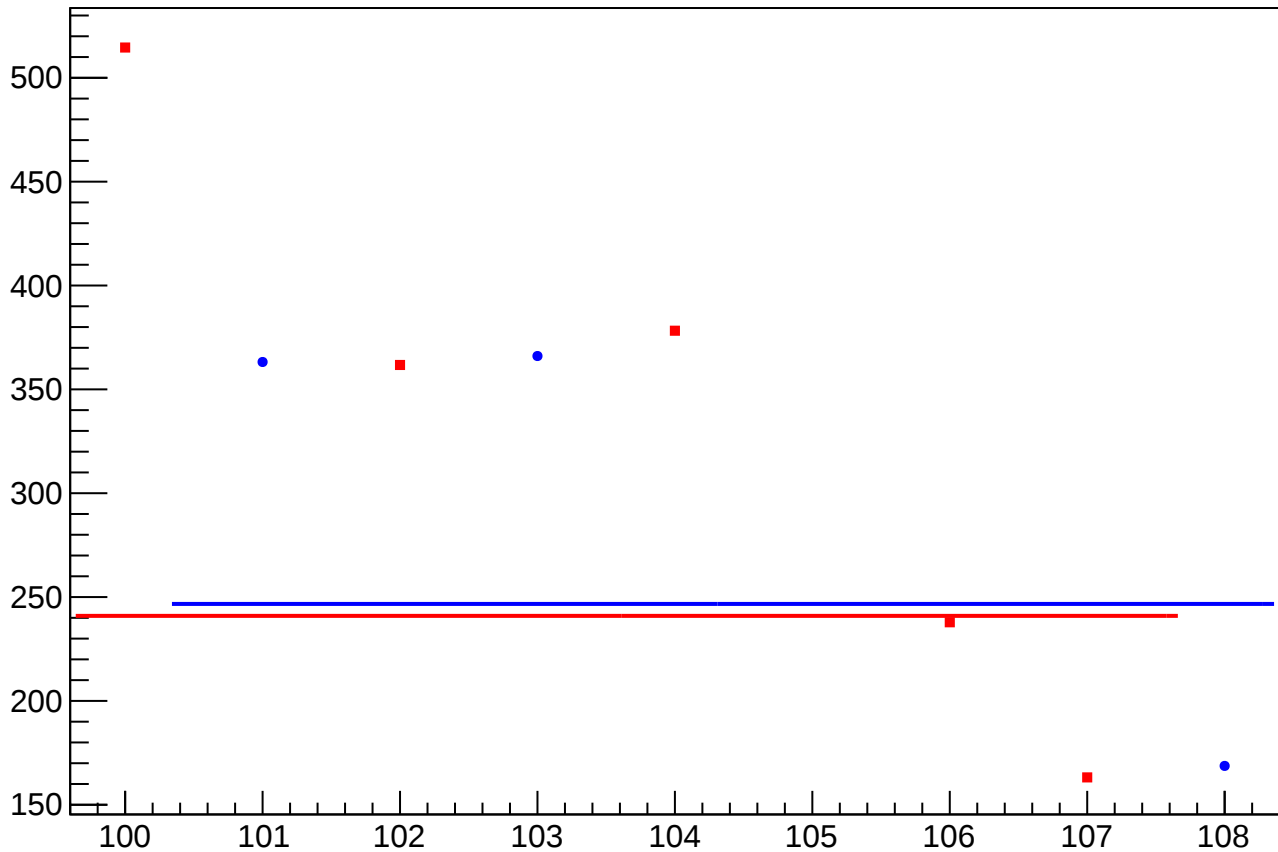
Right Out: 133610.817 $\pm$ 0.198  $\chi^2$ /NDF: 67674088.9/4

All: 133496.439 $\pm$ 0.145  $\chi^2$ /NDF: 103245333

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l05WS\_rms vs Slug



Right In: 246.696 $\pm$ 0.152  $\chi^2$ /NDF: 400549.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 240.947 $\pm$ 0.140  $\chi^2$ /NDF: 451871.2/4

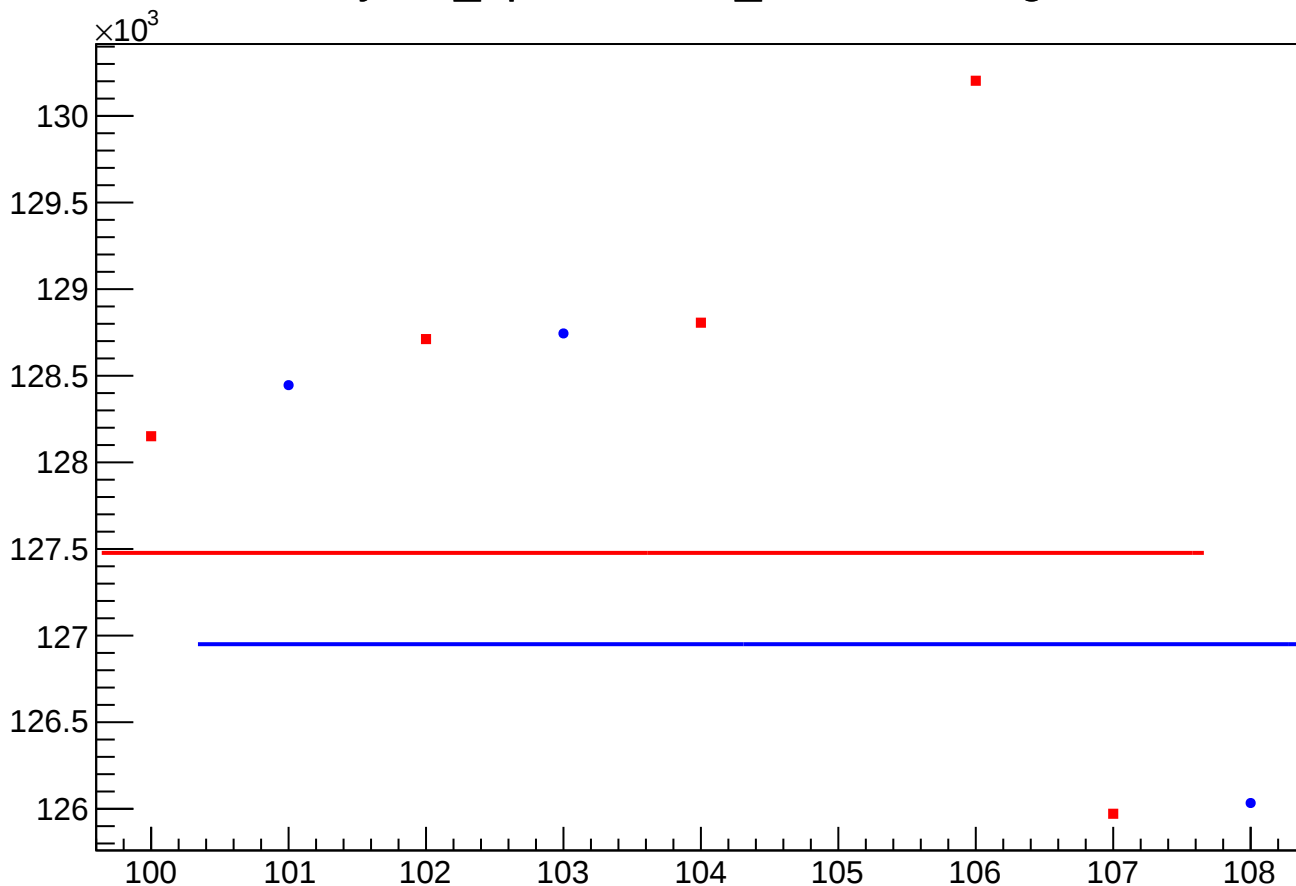
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 243.589 $\pm$ 0.103  $\chi^2$ /NDF: 853198.8/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l06WS\_mean vs Slug



Right In: 126950.368 $\pm$ 0.195  $\chi^2$ /NDF: 39817231.1/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

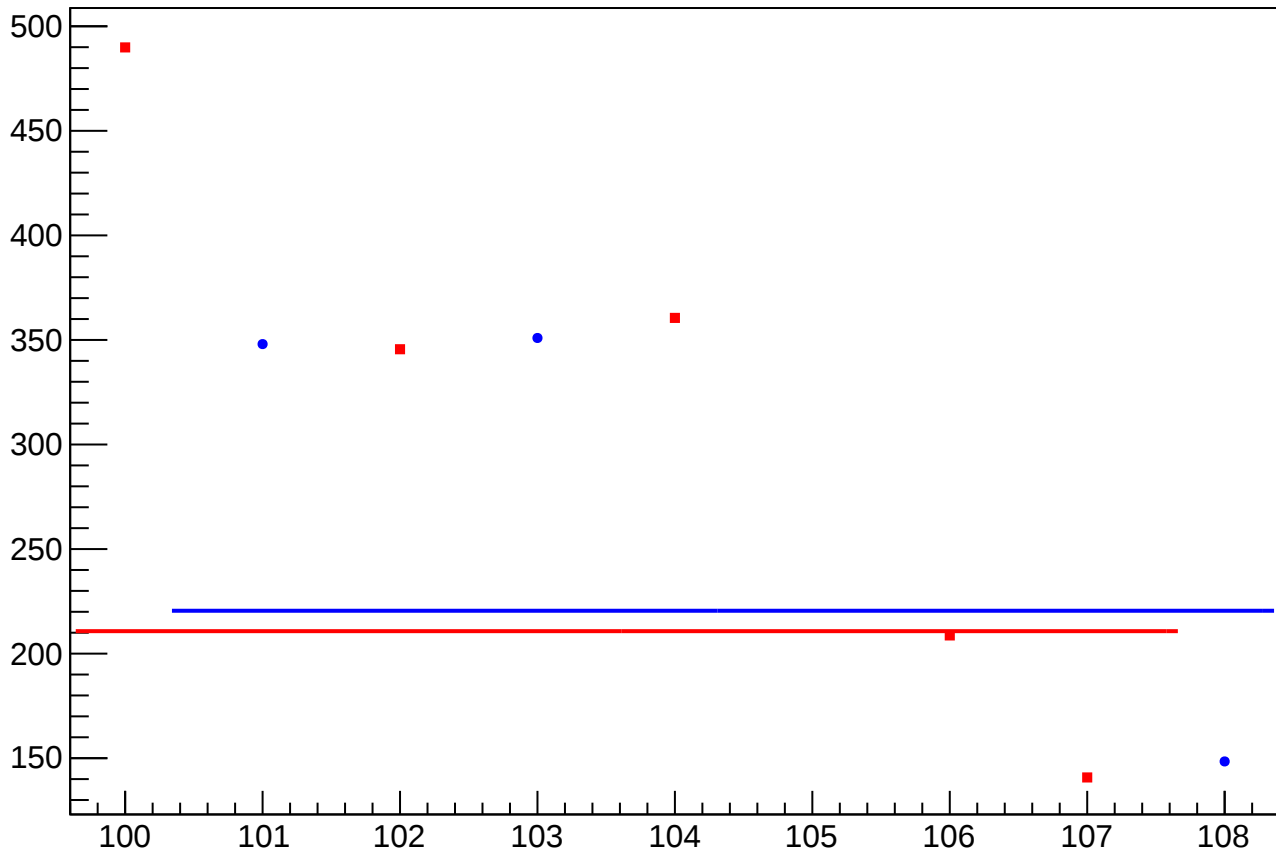
All: 127241.348 $\pm$ 0.130  $\chi^2$ /NDF: 142091850

Right Out: 127477.478 $\pm$ 0.176  $\chi^2$ /NDF: 98235556.3/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l06WS\_rms vs Slug



Right In: 220.503 $\pm$ 0.138  $\chi^2$ /NDF: 489369.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 210.743 $\pm$ 0.124  $\chi^2$ /NDF: 556628.4/4

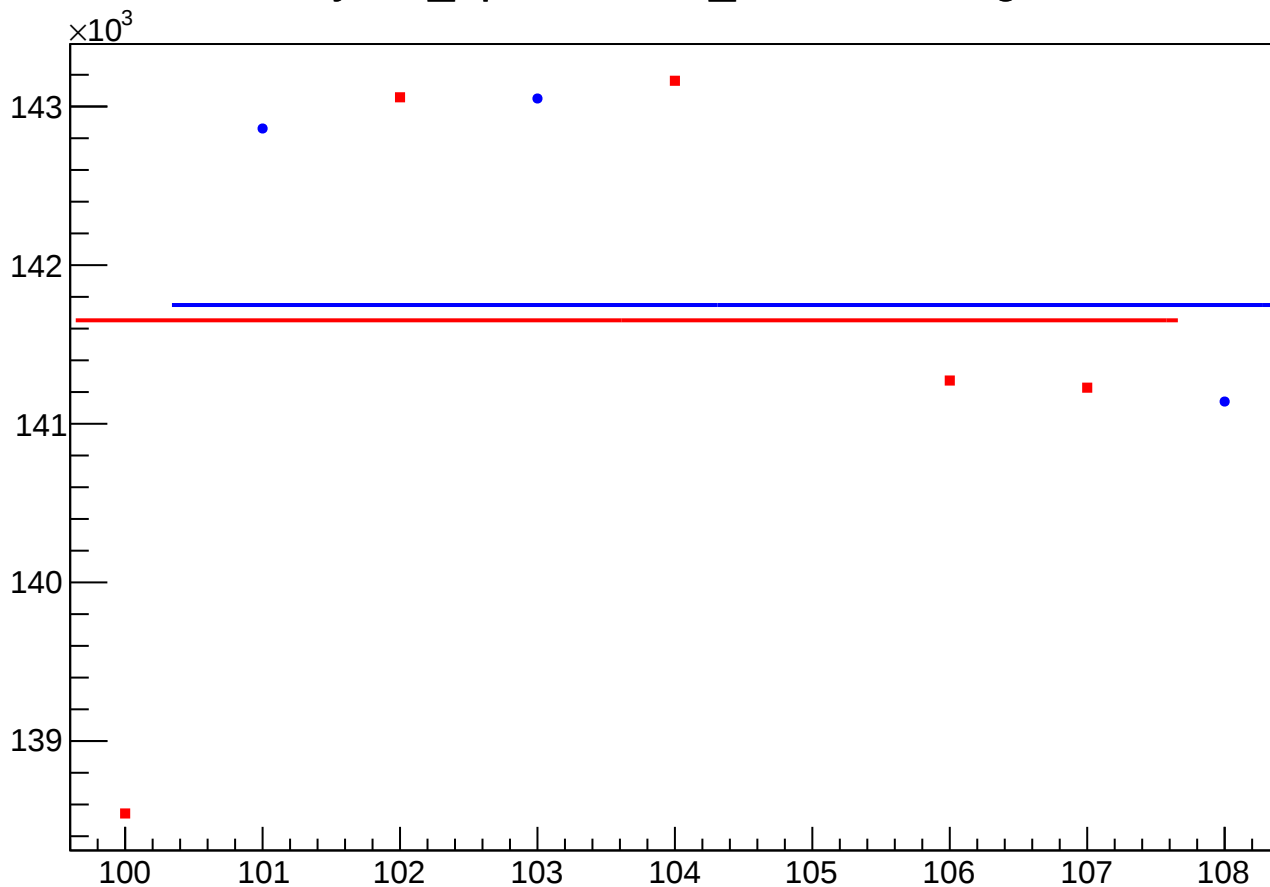
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 215.115 $\pm$ 0.092  $\chi^2$ /NDF: 1048766.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l07WS\_mean vs Slug



Right In: 141748.666 $\pm$ 0.216  $\chi^2$ /NDF: 15780327.6/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

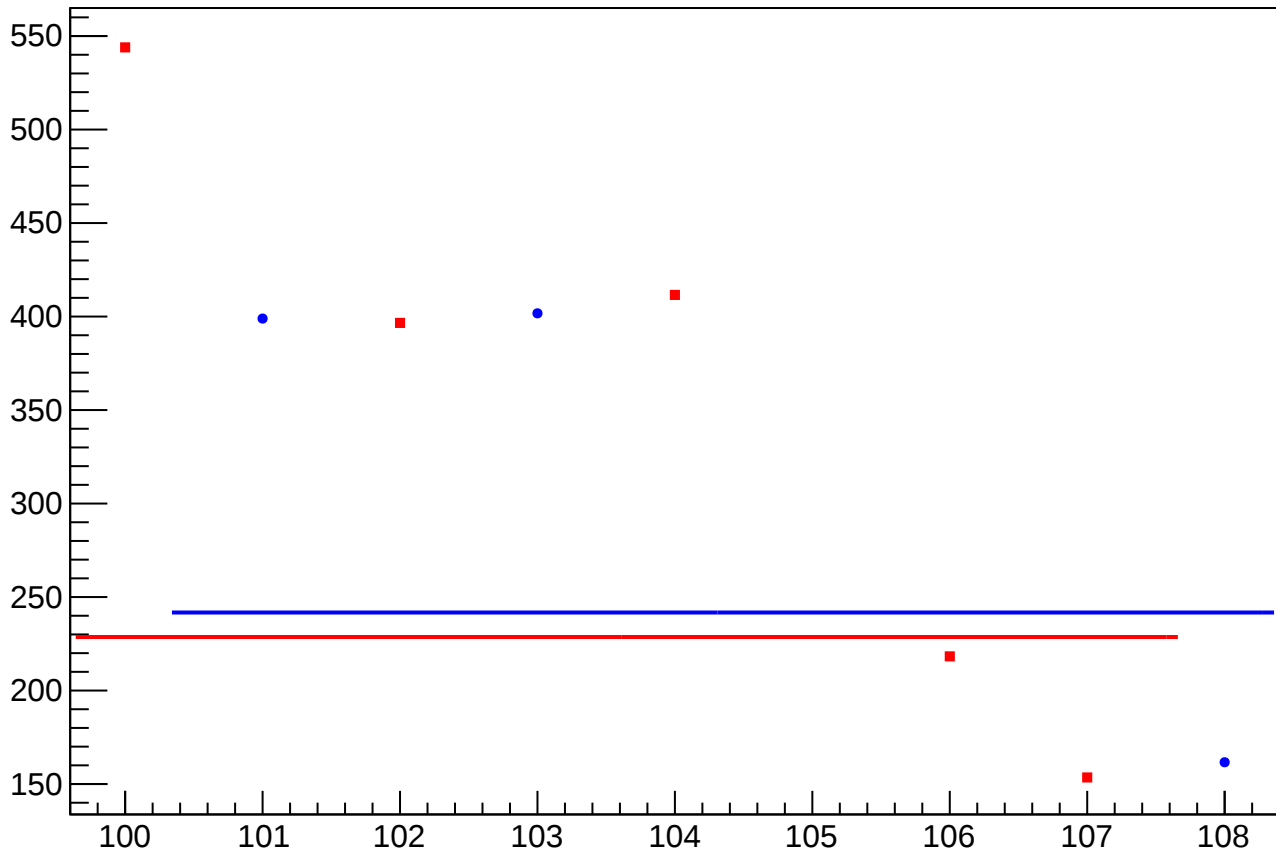
Right Out: 141652.189 $\pm$ 0.191  $\chi^2$ /NDF: 19297472.2/4

All: 141694.630 $\pm$ 0.143  $\chi^2$ /NDF: 35189556.0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l07WS\_rms vs Slug



Right In: 241.731 $\pm$ 0.153  $\chi^2$ /NDF: 544433.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 228.624 $\pm$ 0.135  $\chi^2$ /NDF: 608421.3/4

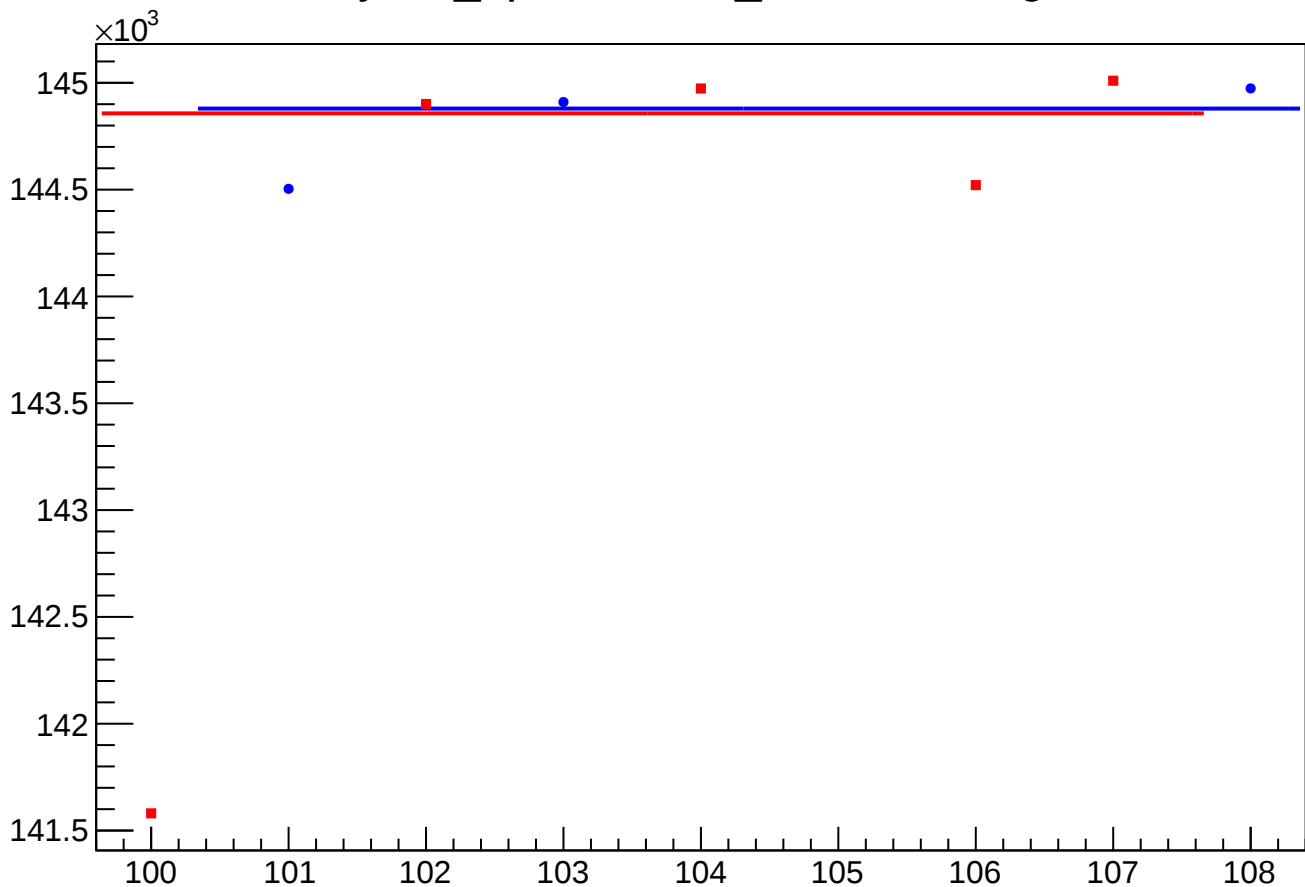
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 234.390 $\pm$ 0.101  $\chi^2$ /NDF: 1156979.5/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l08WS\_mean vs Slug



Right In: 144879.455 $\pm$ 0.216  $\chi^2$ /NDF: 663033.2/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

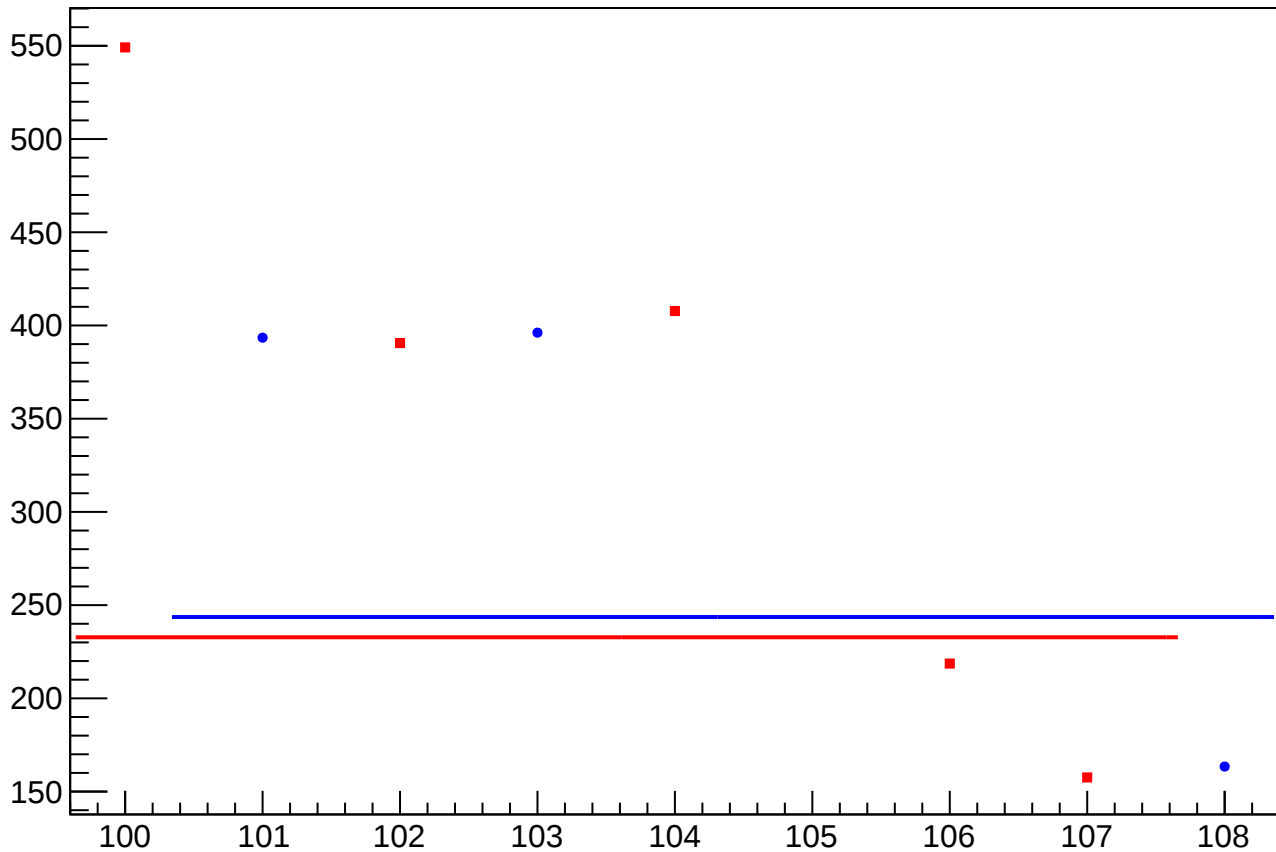
All: 144866.912 $\pm$ 0.144  $\chi^2$ /NDF: 4192401.9

Right Out: 144856.925 $\pm$ 0.193  $\chi^2$ /NDF: 3523338.0/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l08WS\_rms vs Slug



Right In: 243.622 $\pm$ 0.153  $\chi^2$ /NDF: 517389.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 232.753 $\pm$ 0.137  $\chi^2$ /NDF: 569860.1/4

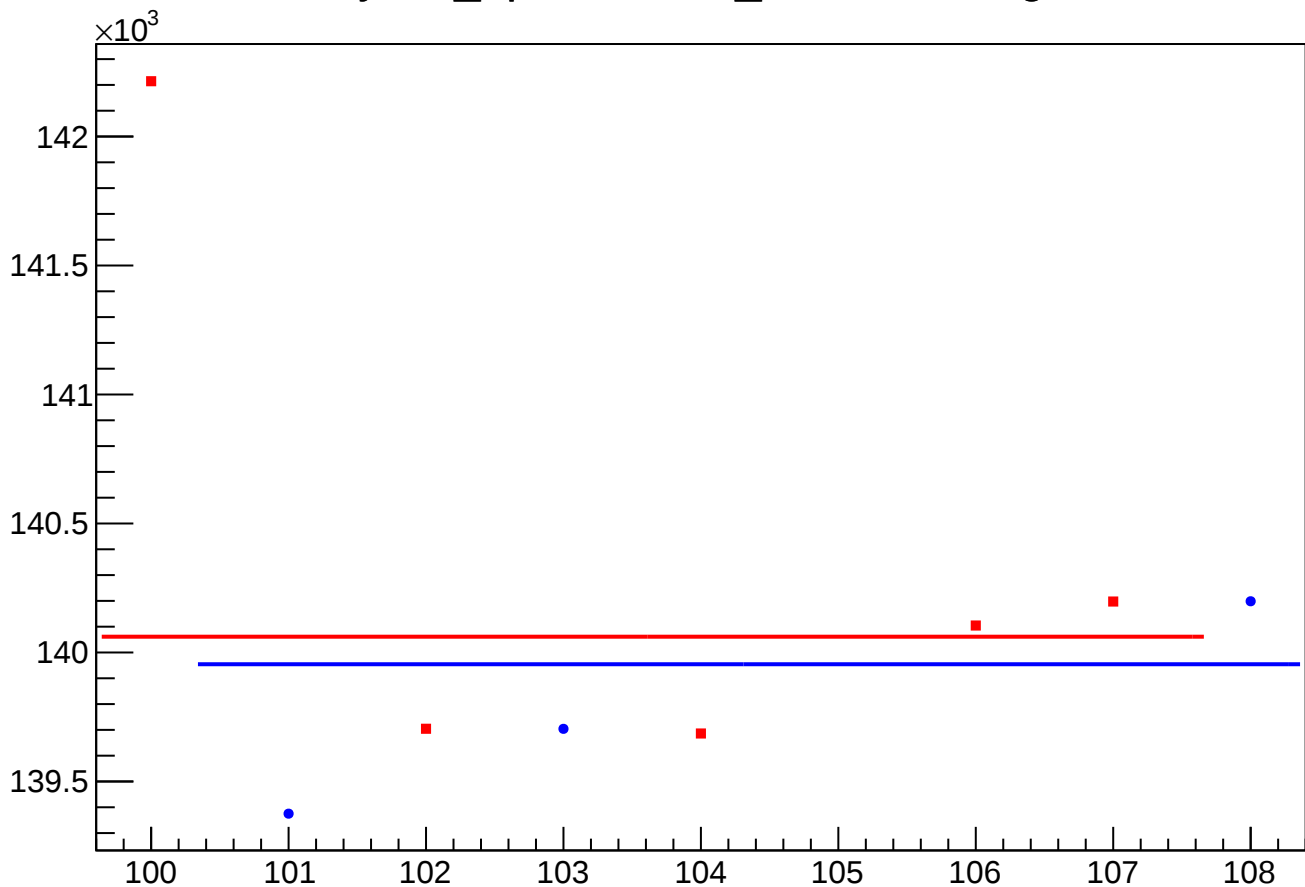
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 237.571 $\pm$ 0.102  $\chi^2$ /NDF: 1090057.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l09WS\_mean vs Slug



Right In: 139954.436 $\pm$ 0.222  $\chi^2$ /NDF: 2284234.1/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

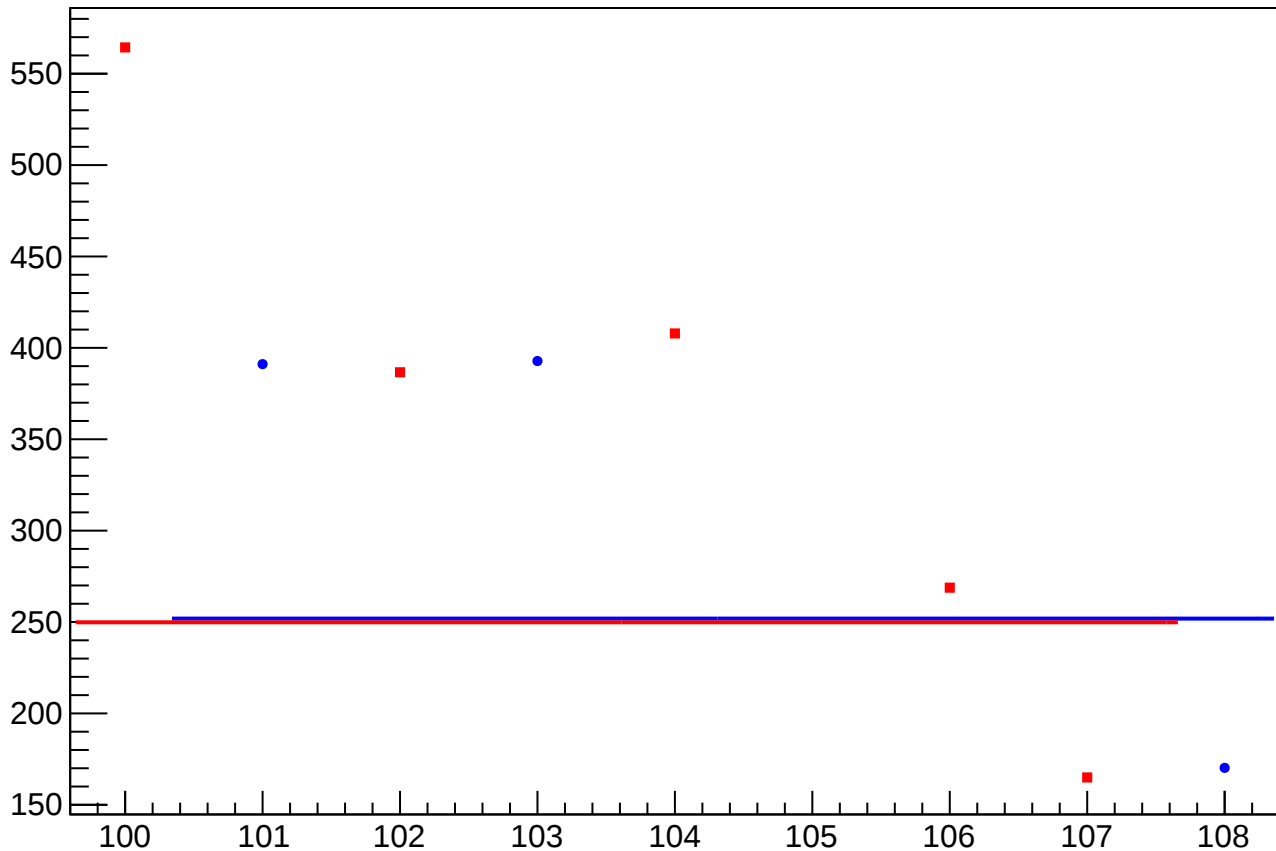
All: 140011.704 $\pm$ 0.151  $\chi^2$ /NDF: 4558257.2

Right Out: 140061.193 $\pm$ 0.206  $\chi^2$ /NDF: 2149495.5/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l09WS\_rms vs Slug



Right In: 251.879+/-0.157  $\chi^2/\text{NDF}$ : 465925.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 249.855+/-0.146  $\chi^2/\text{NDF}$ : 517941.4/4

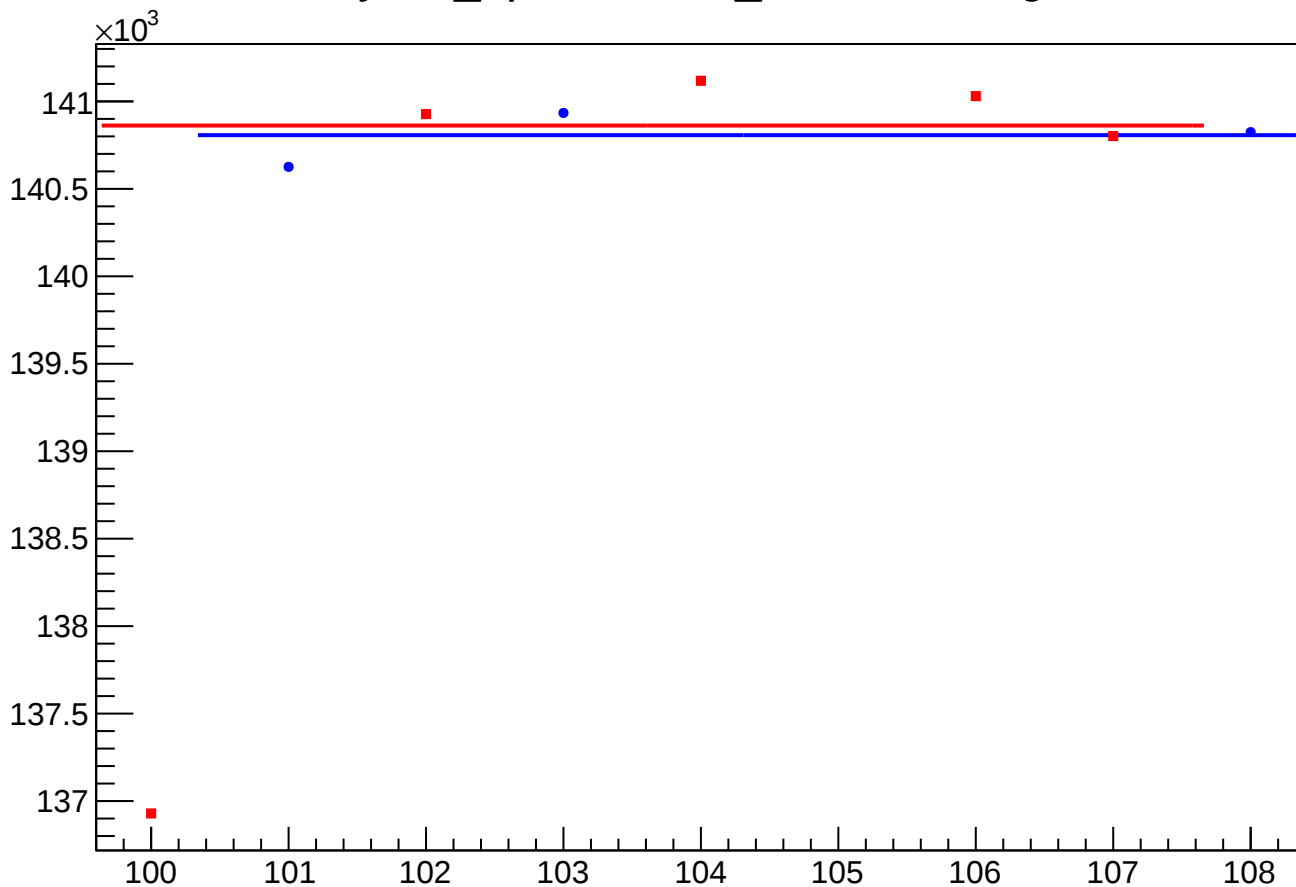
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 250.793+/-0.107  $\chi^2/\text{NDF}$ : 983956.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10WS\_mean vs Slug



Right In: 140807.041 $\pm$ 0.220  $\chi^2$ /NDF: 188909.5/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

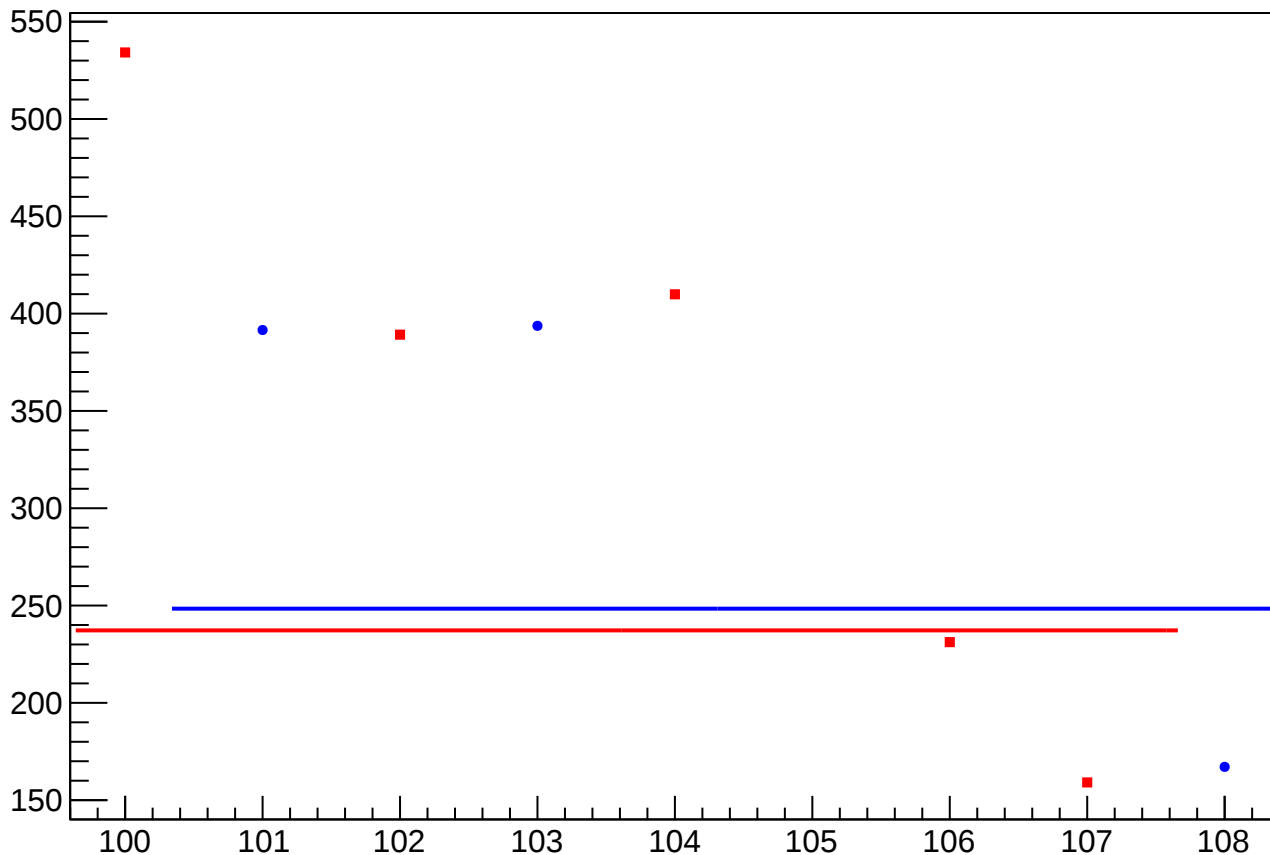
All: 140837.421 $\pm$ 0.147  $\chi^2$ /NDF: 4419751.2

Right Out: 140861.955 $\pm$ 0.197  $\chi^2$ /NDF: 4196239.7/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l10WS\_rms vs Slug



Right In: 248.400 $\pm$ 0.155  $\chi^2$ /NDF: 486356.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 237.233 $\pm$ 0.140  $\chi^2$ /NDF: 554912.3/4

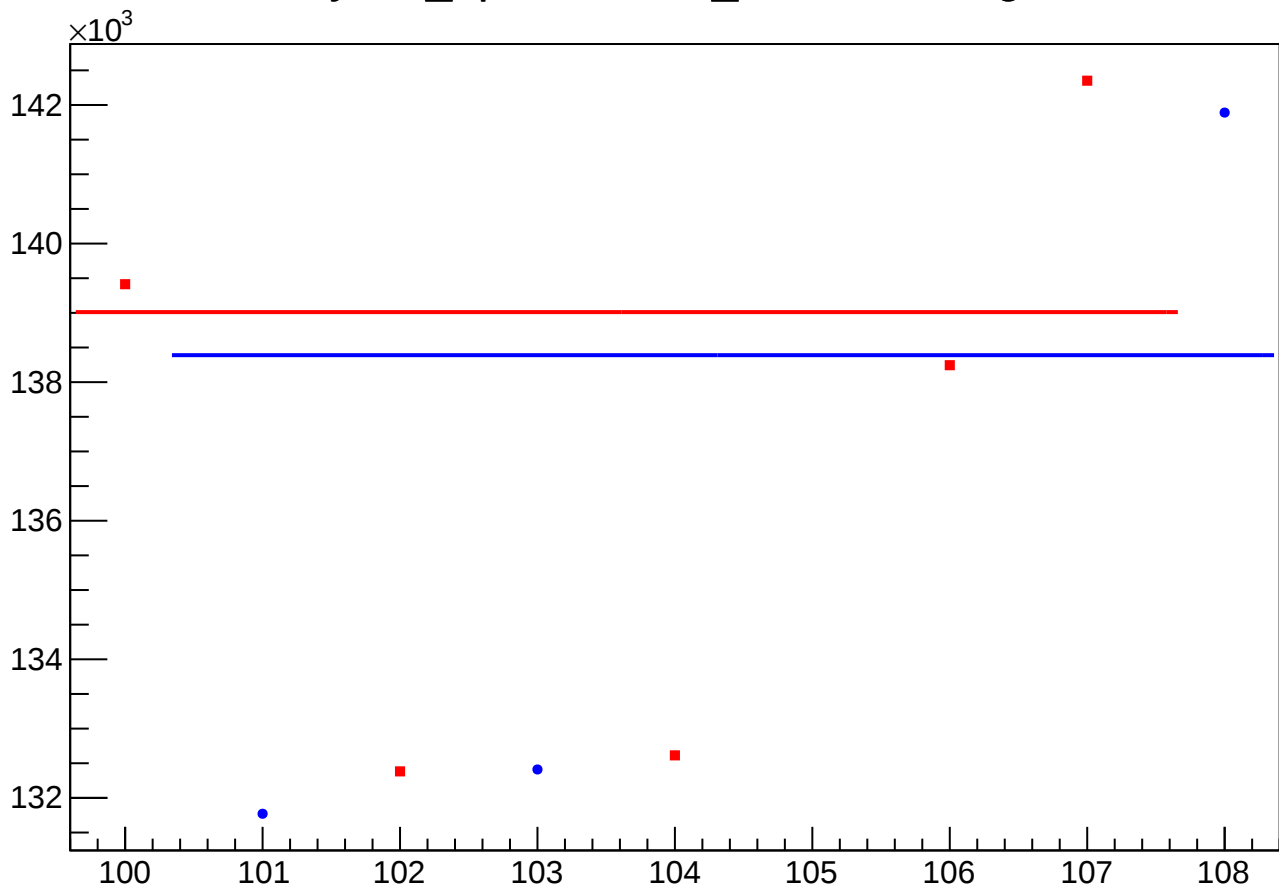
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 242.222 $\pm$ 0.104  $\chi^2$ /NDF: 1044130.6/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r03WS\_mean vs Slug



Right In: 138389.415 $\pm$ 0.260  $\chi^2$ /NDF: 327433166.6/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

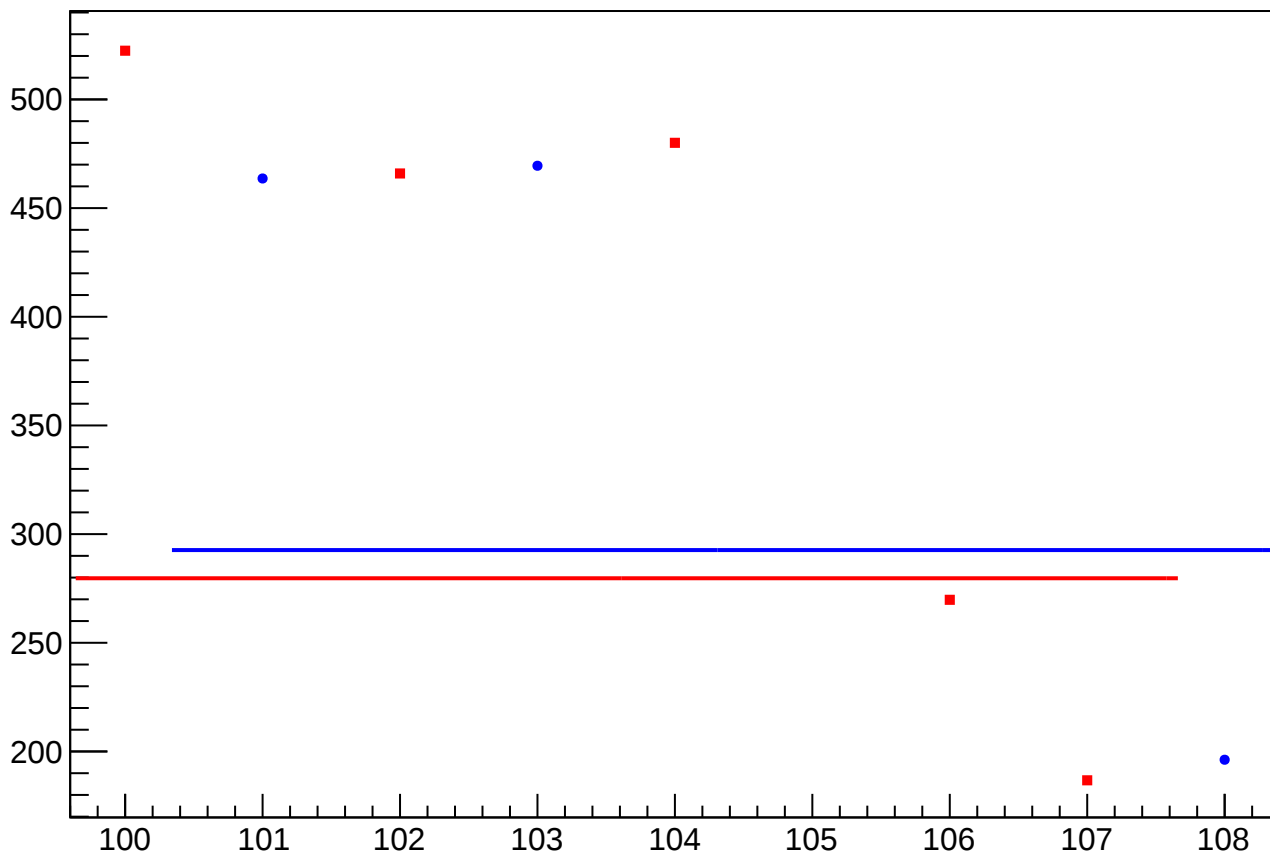
Right Out: 139010.972 $\pm$ 0.234  $\chi^2$ /NDF: 306621130.0/4

All: 138733.287 $\pm$ 0.174  $\chi^2$ /NDF: 637217922

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r03WS\_rms vs Slug



Right In: 292.660 $\pm$ 0.184  $\chi^2$ /NDF: 496441.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 279.689 $\pm$ 0.165  $\chi^2$ /NDF: 540872.5/4

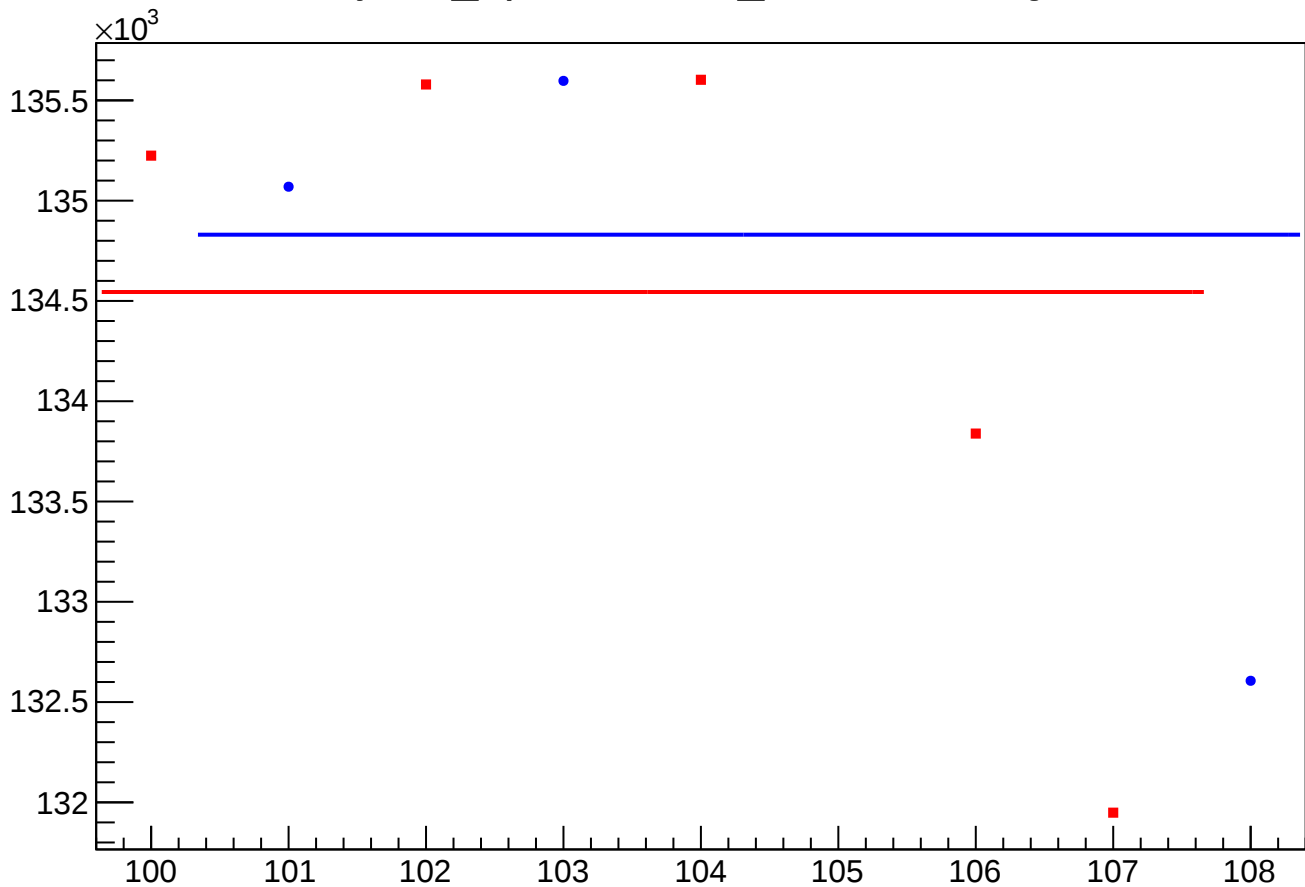
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 285.484 $\pm$ 0.123  $\chi^2$ /NDF: 1040069.2/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r05WS\_mean vs Slug



Right In: 134830.311 $\pm$ 0.313  $\chi^2$ /NDF: 11847955.8/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

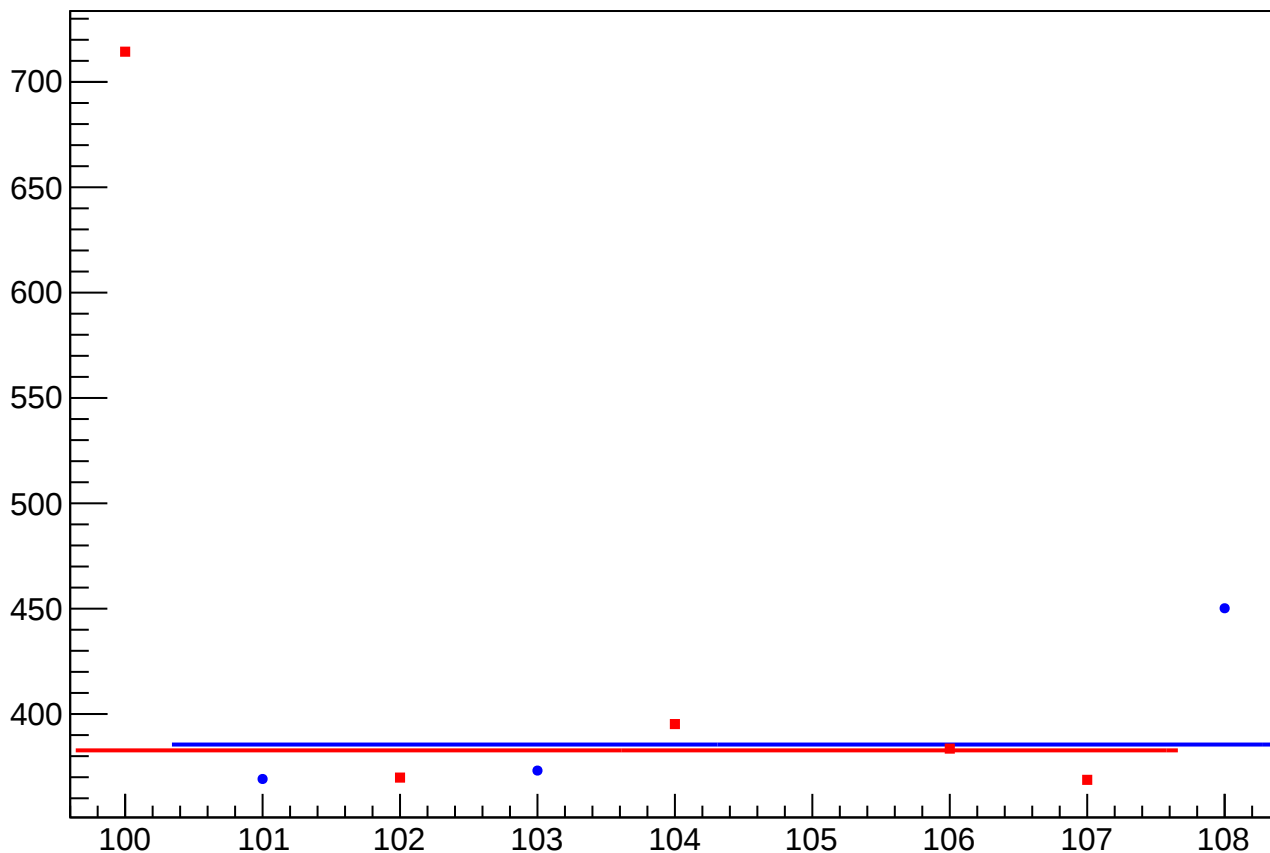
All: 134680.279 $\pm$ 0.216  $\chi^2$ /NDF: 37328185.

Right Out: 134544.592 $\pm$ 0.297  $\chi^2$ /NDF: 25041893.1/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r05WS\_rms vs Slug



Right In: 385.512 $\pm$ 0.221  $\chi^2$ /NDF: 19125.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 382.742 $\pm$ 0.210  $\chi^2$ /NDF: 33542.2/4

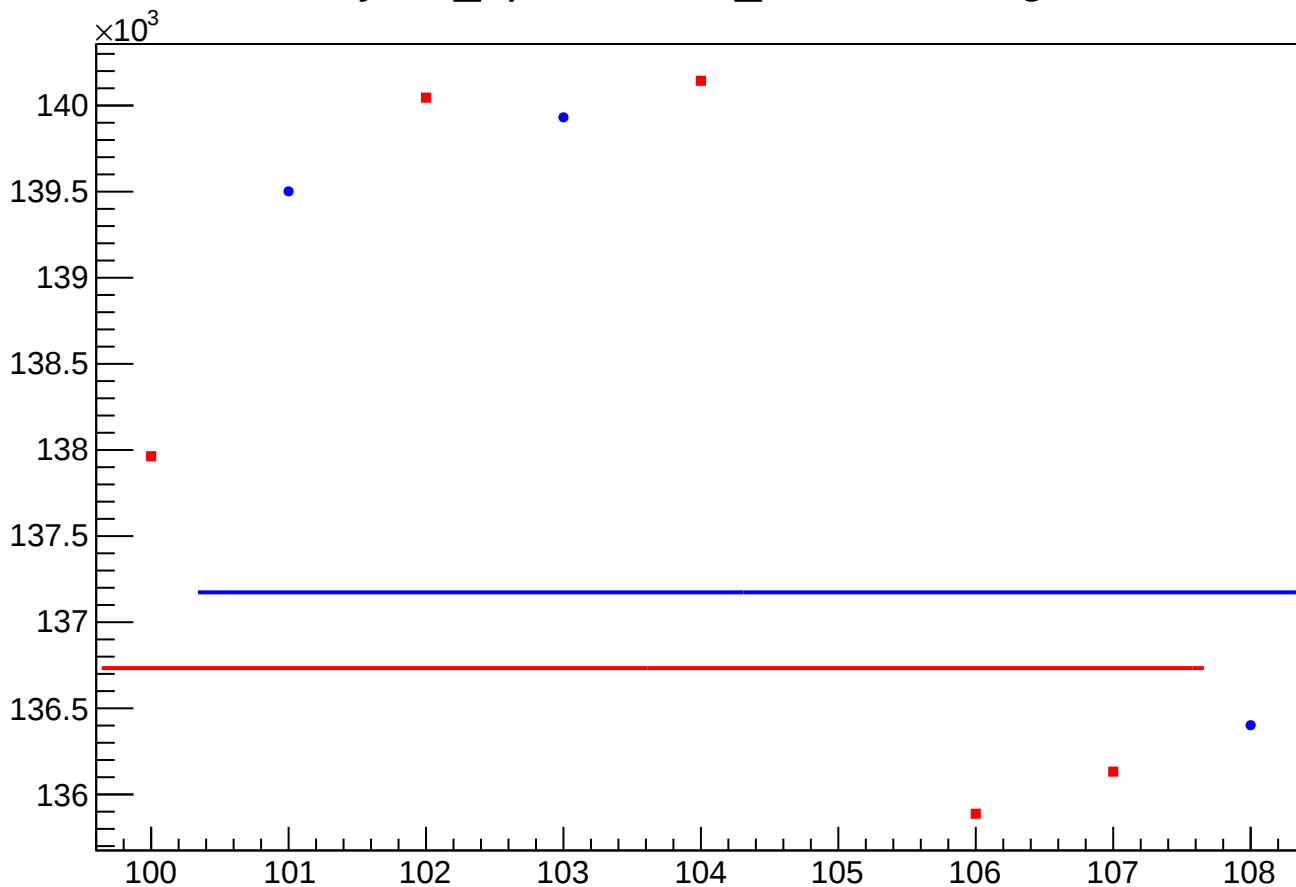
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 384.057 $\pm$ 0.152  $\chi^2$ /NDF: 52749.8/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i02WS\_mean vs Slug



Right In: 137173.460 $\pm$ 0.170  $\chi^2$ /NDF: 67591590.9/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

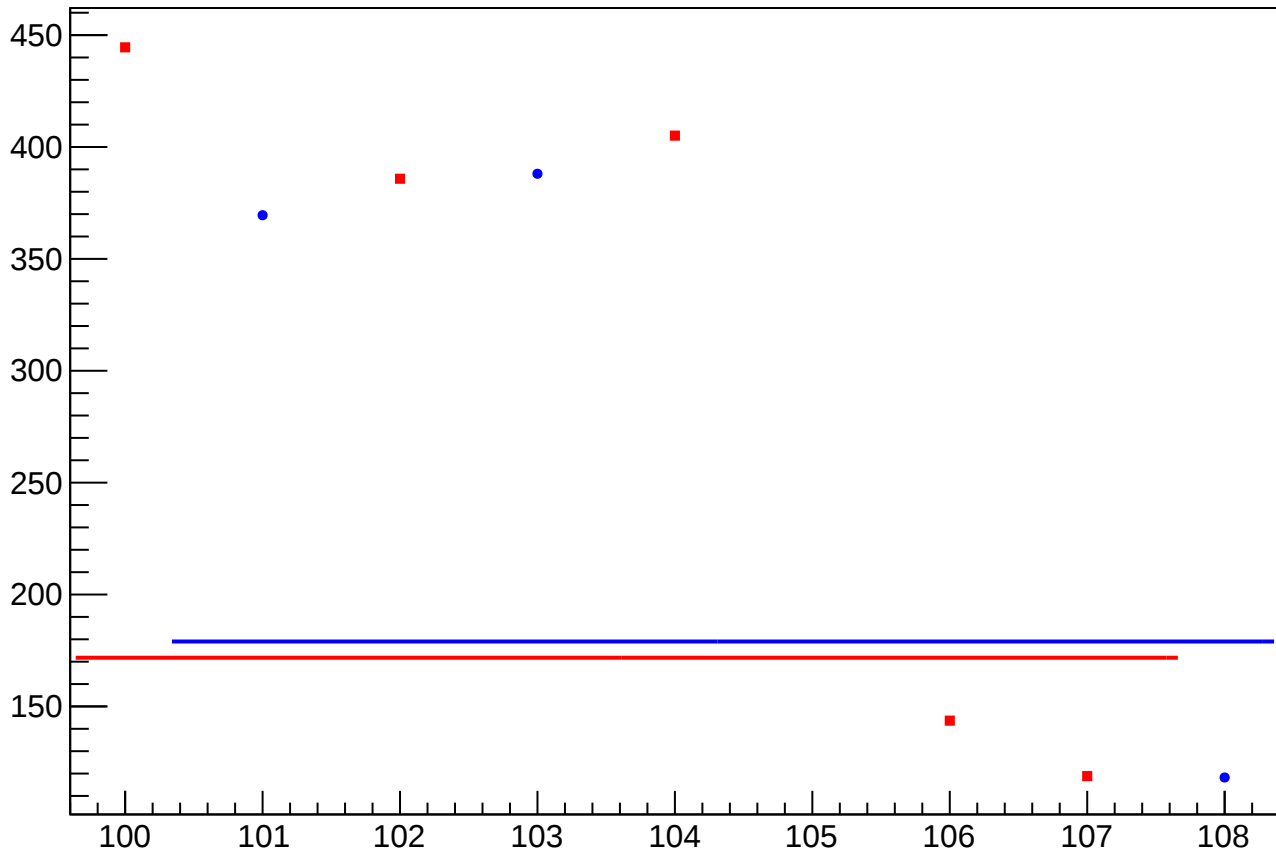
All: 136933.783 $\pm$ 0.115  $\chi^2$ /NDF: 162457980.0/2

Right Out: 136733.418 $\pm$ 0.156  $\chi^2$ /NDF: 91231949.5/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i02WS\_rms vs Slug



Right In: 179.012 $\pm$ 0.120  $\chi^2$ /NDF: 835388.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 171.760 $\pm$ 0.110  $\chi^2$ /NDF: 869551.3/4

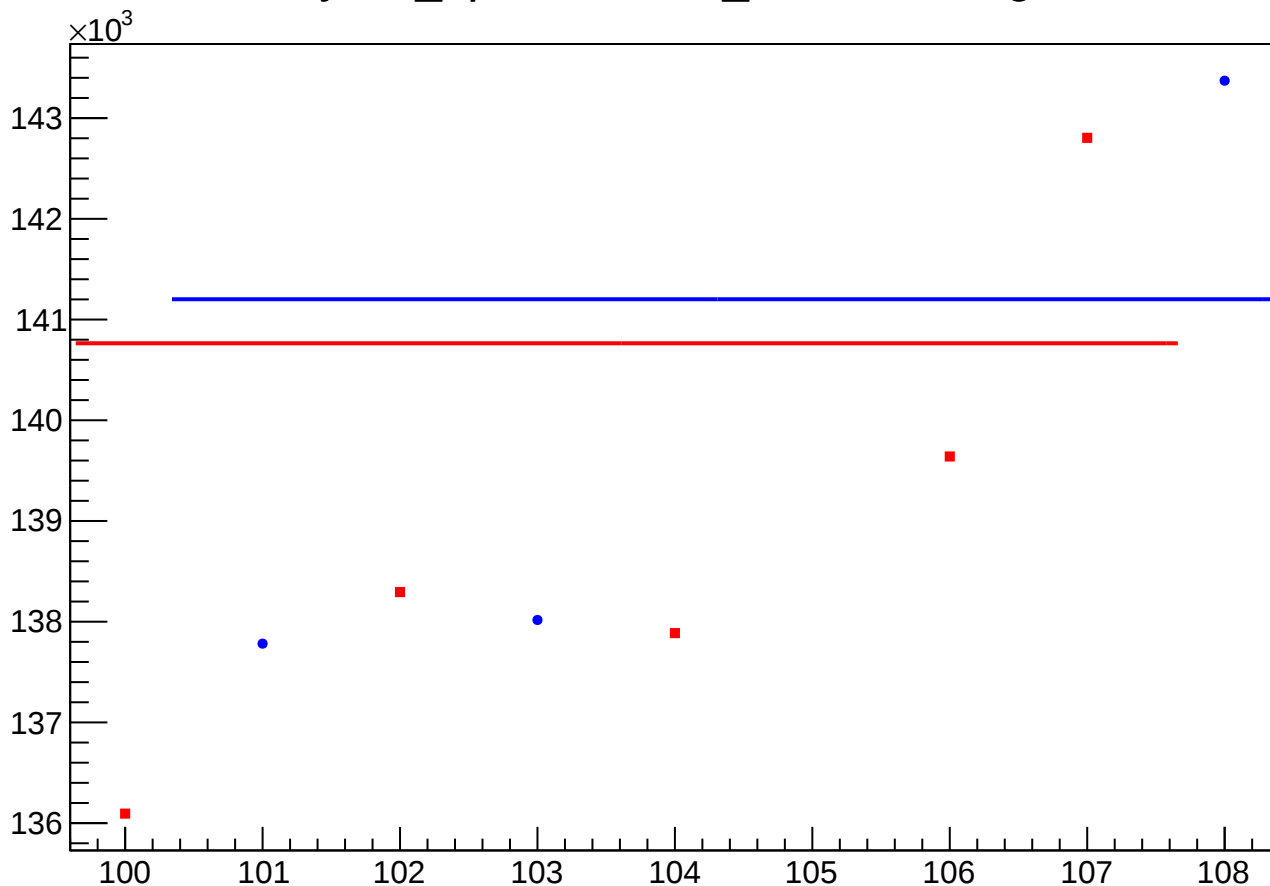
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 175.062 $\pm$ 0.081  $\chi^2$ /NDF: 1706914.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i02aWS\_mean vs Slug



Right In: 141201.658 $\pm$ 0.213  $\chi^2$ /NDF: 158131599.9/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

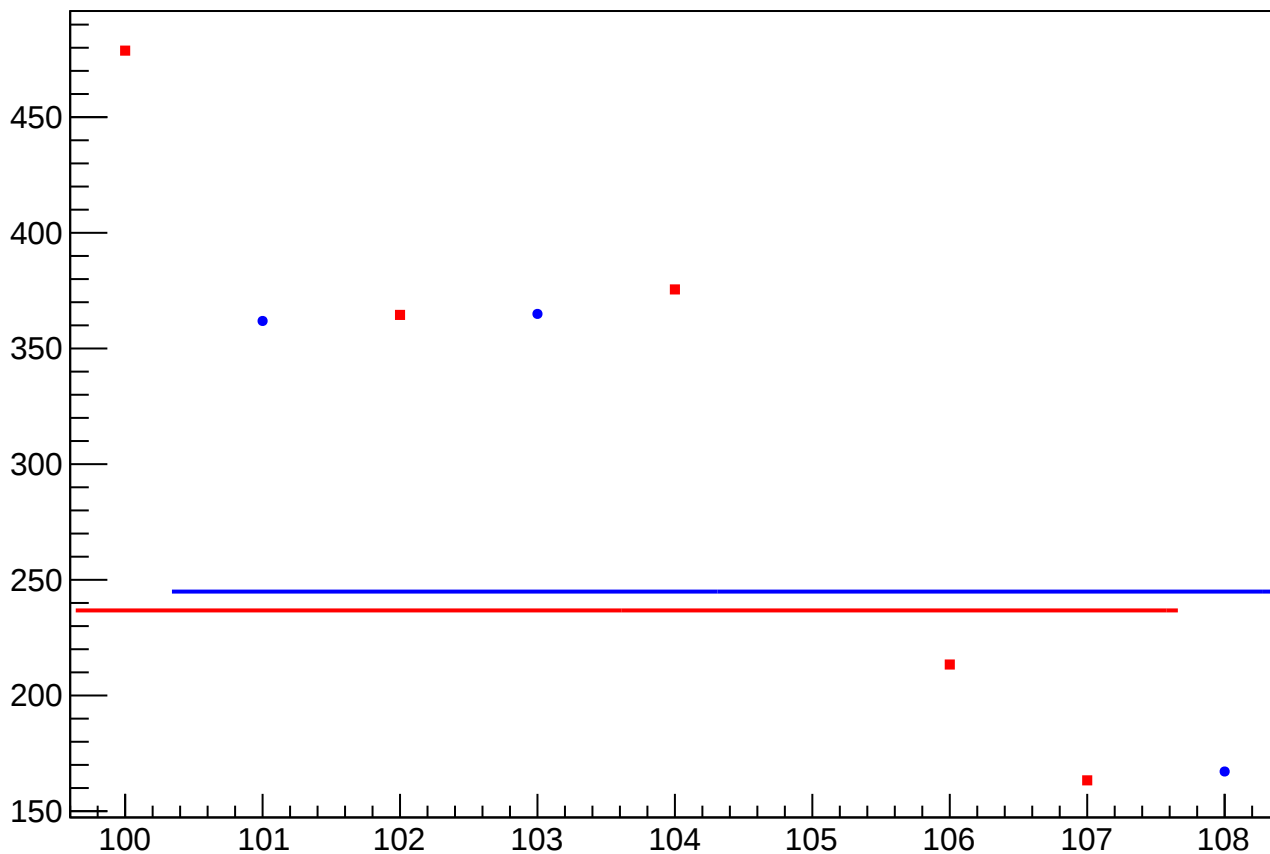
Right Out: 140764.432 $\pm$ 0.197  $\chi^2$ /NDF: 121539788.8/4

All: 140965.544 $\pm$ 0.144  $\chi^2$ /NDF: 281945818

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i02aWS\_rms vs Slug



Right In: 244.919 $\pm$ 0.151  $\chi^2$ /NDF: 405993.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 236.771 $\pm$ 0.139  $\chi^2$ /NDF: 451637.6/4

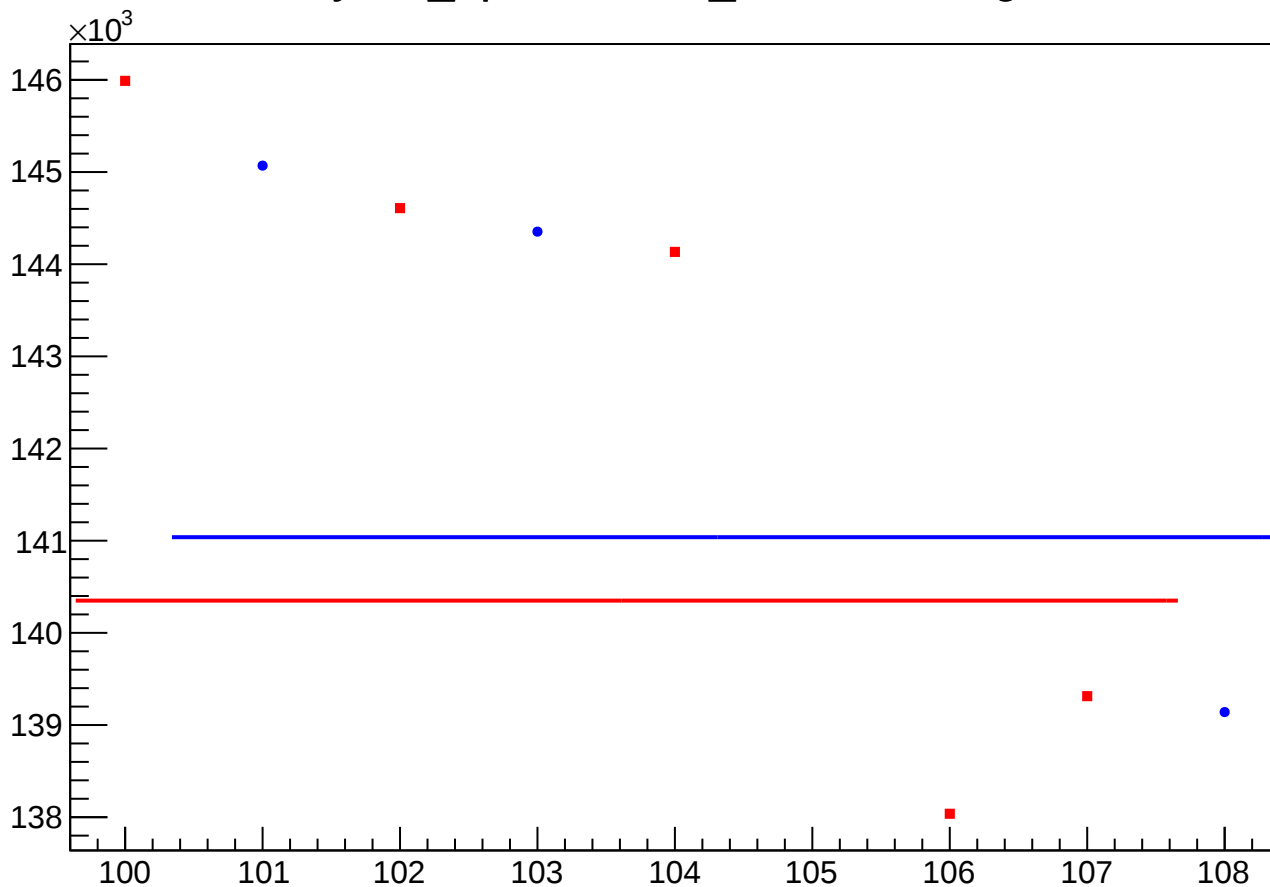
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 240.519 $\pm$ 0.102  $\chi^2$ /NDF: 859211.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i05WS\_mean vs Slug



Right In: 141038.049 $\pm$ 0.196  $\chi^2$ /NDF: 183099595.3/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

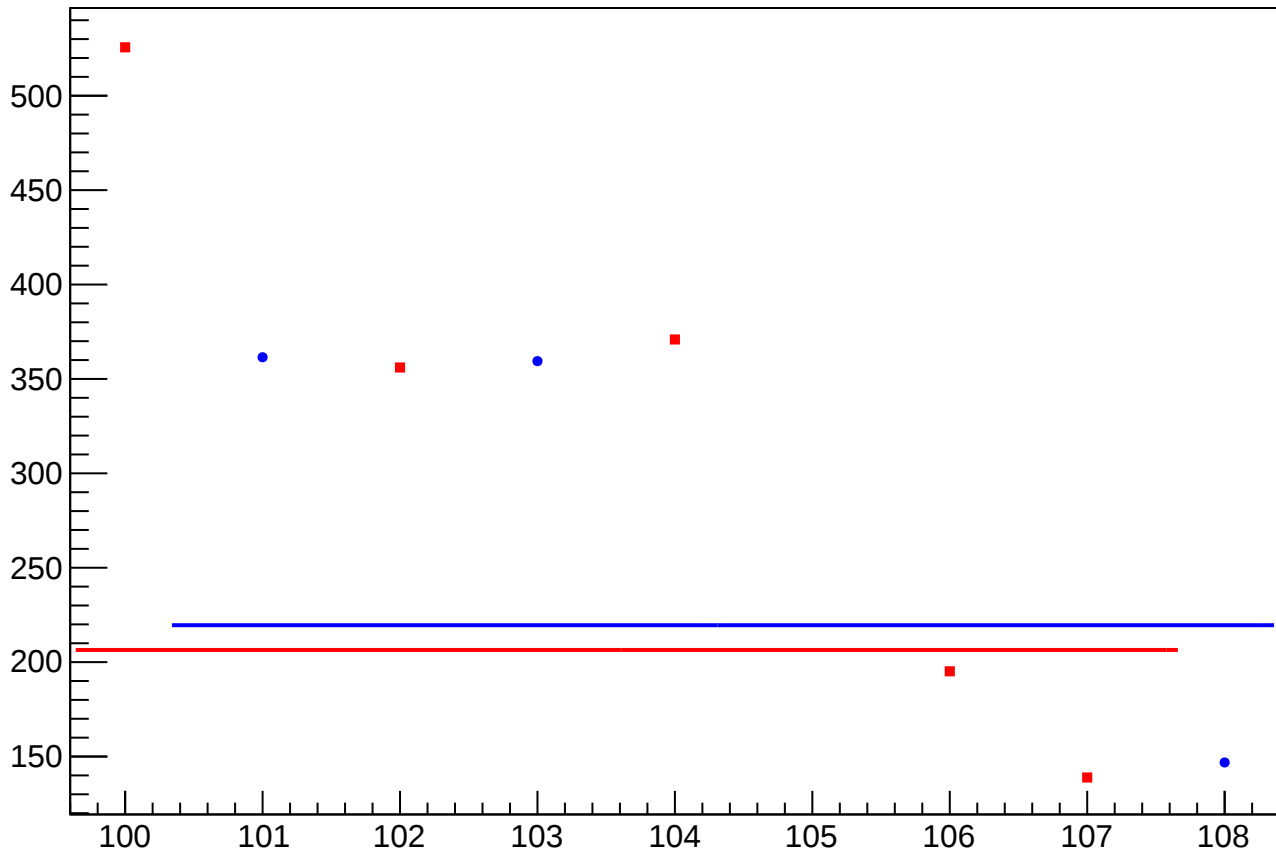
Right Out: 140349.853 $\pm$ 0.175  $\chi^2$ /NDF: 189848600.3/4

All: 140655.340 $\pm$ 0.130  $\chi^2$ /NDF: 379814744

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i05WS\_rms vs Slug



Right In: 219.556 $\pm$ 0.138  $\chi^2$ /NDF: 534121.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 206.456 $\pm$ 0.124  $\chi^2$ /NDF: 606930.9/4

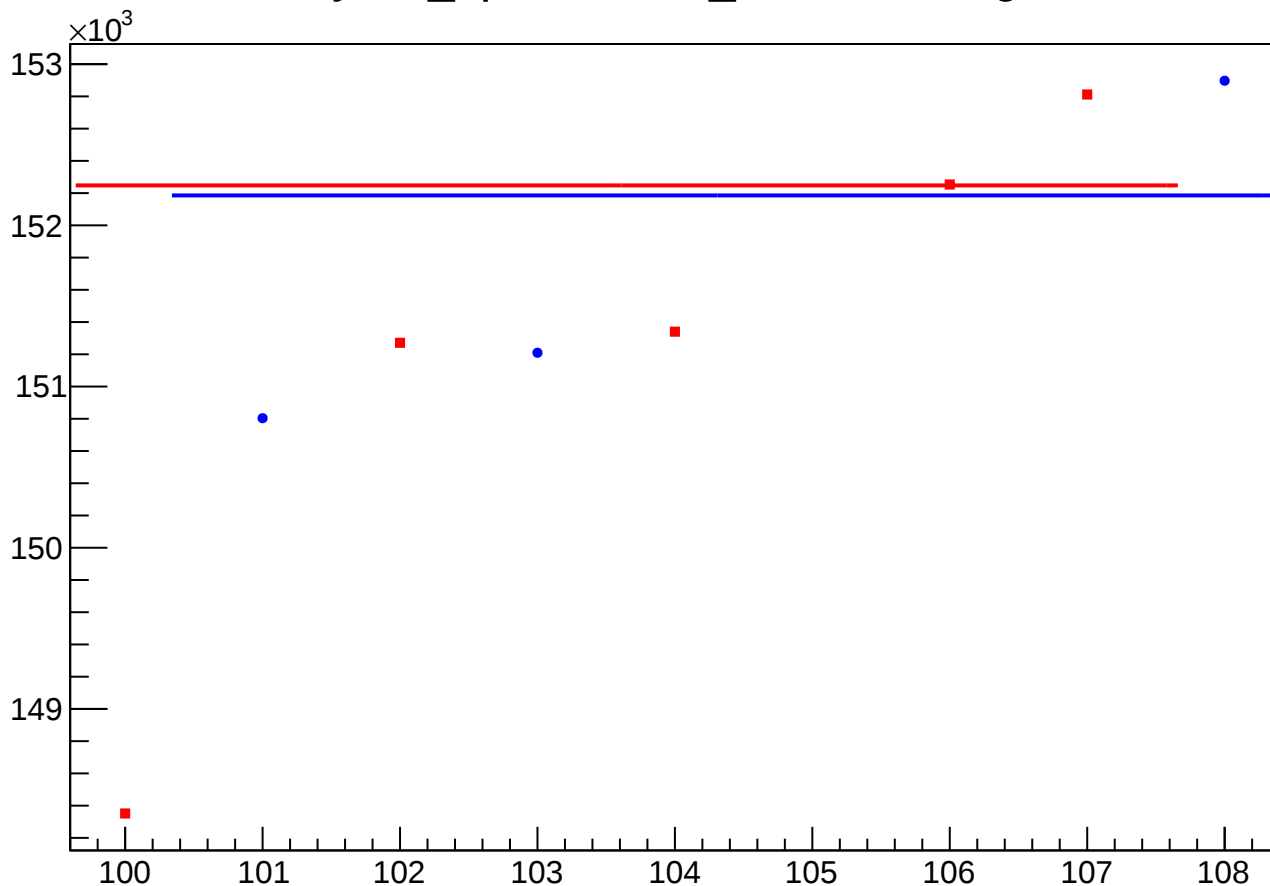
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 212.271 $\pm$ 0.092  $\chi^2$ /NDF: 1146028.2/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i07WS\_mean vs Slug



Right In: 152185.685 $\pm$ 0.216  $\chi^2$ /NDF: 18436251.9/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

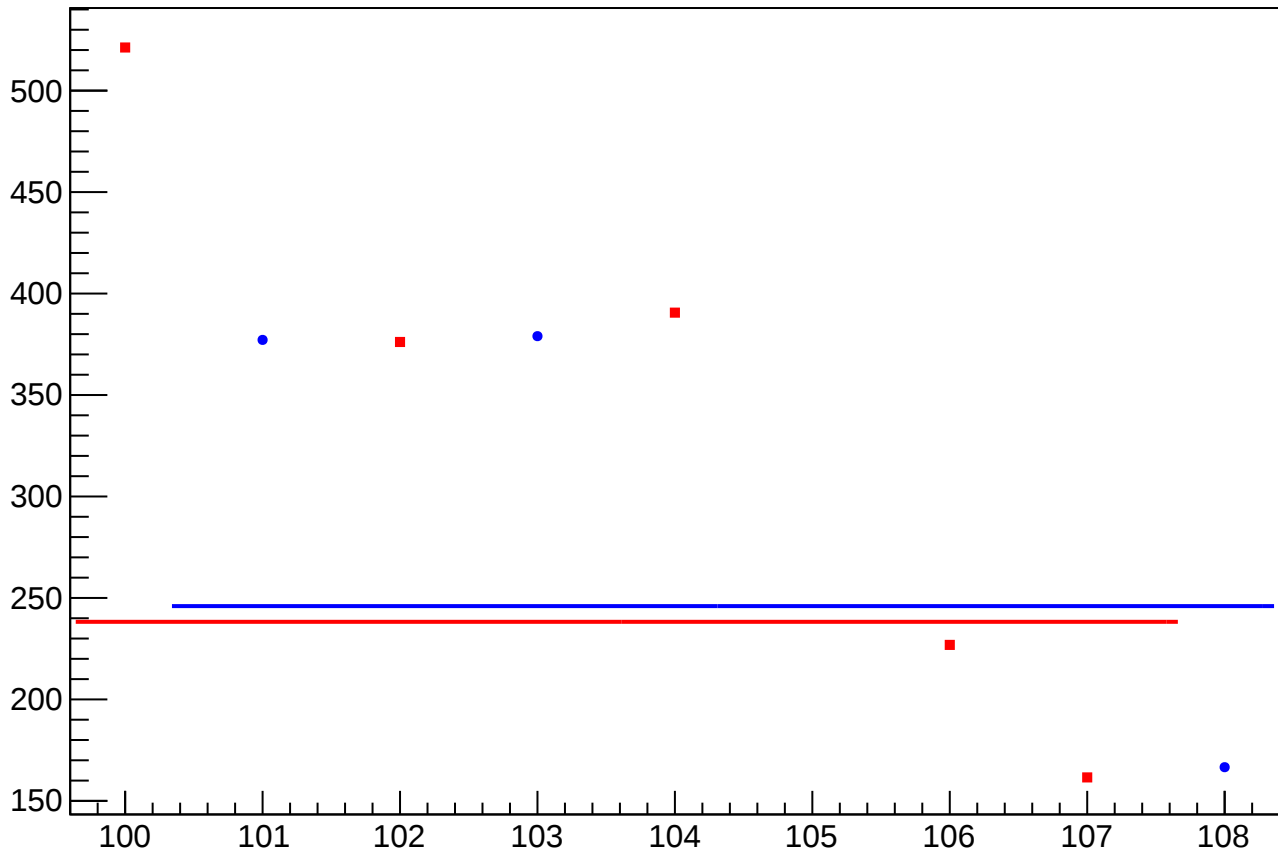
Right Out: 152247.767 $\pm$ 0.198  $\chi^2$ /NDF: 14576206.2/4

All: 152219.452 $\pm$ 0.146  $\chi^2$ /NDF: 33057502.0

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i07WS\_rms vs Slug



Right In: 245.982 $\pm$ 0.153  $\chi^2$ /NDF: 450576.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 238.242 $\pm$ 0.140  $\chi^2$ /NDF: 498765.1/4

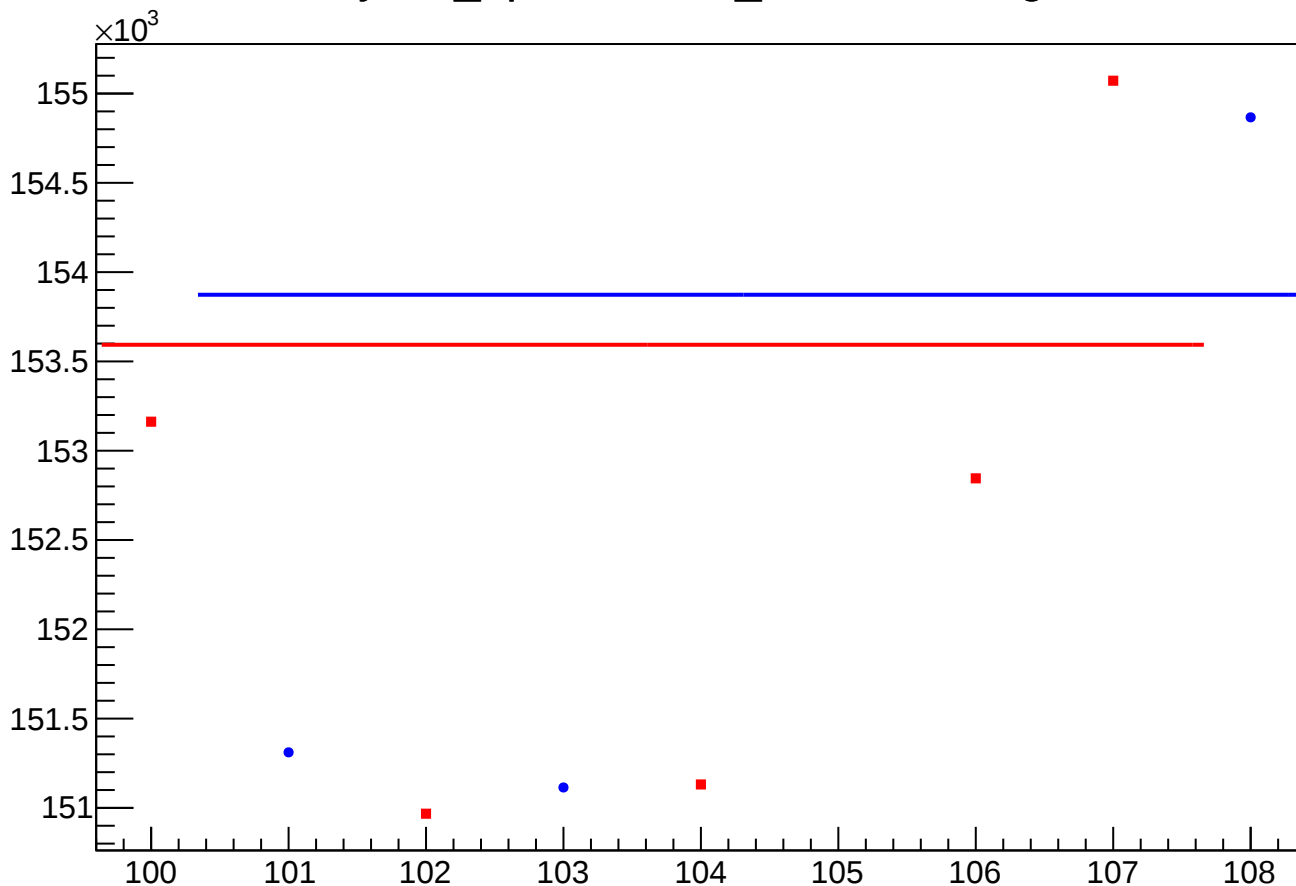
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 241.772 $\pm$ 0.103  $\chi^2$ /NDF: 950741.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i02WS\_mean vs Slug



Right In: 153873.356 $\pm$ 0.200  $\chi^2$ /NDF: 66215252.2/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

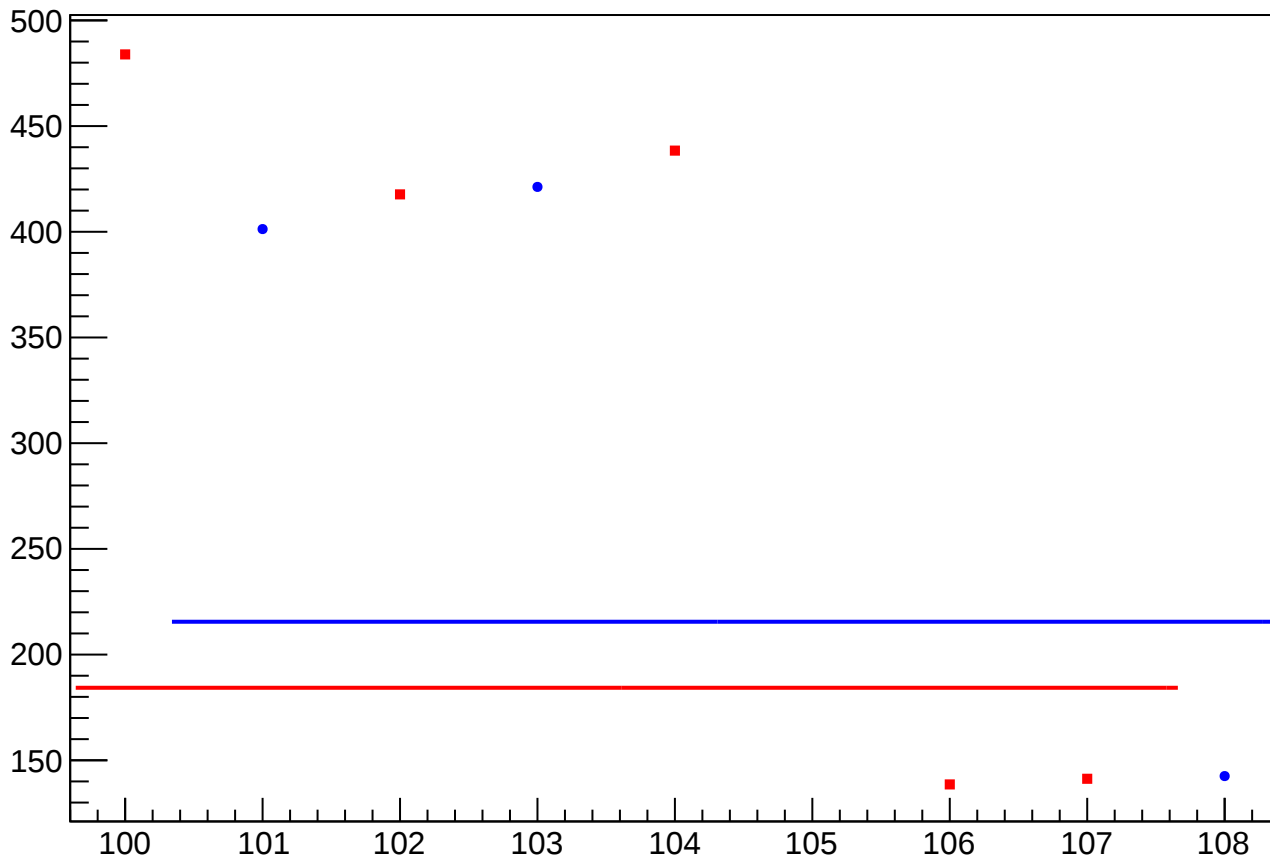
All: 153702.641 $\pm$ 0.125  $\chi^2$ /NDF: 151942450

Right Out: 153593.293 $\pm$ 0.160  $\chi^2$ /NDF: 84527690.6/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i02WS\_rms vs Slug



Right In: 215.537 $\pm$ 0.141  $\chi^2$ /NDF: 715847.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 184.304 $\pm$ 0.113  $\chi^2$ /NDF: 855137.3/4

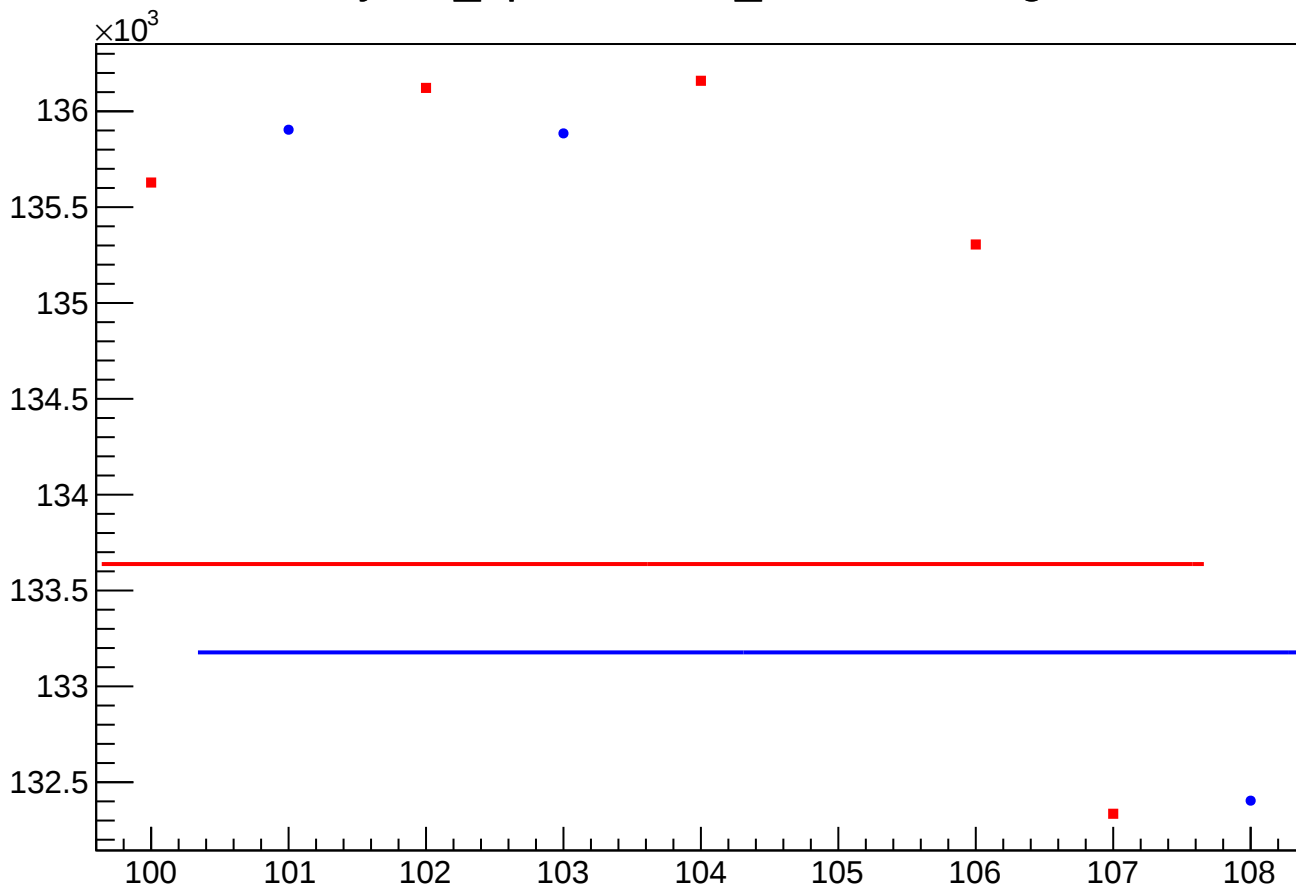
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 196.499 $\pm$ 0.088  $\chi^2$ /NDF: 1600821.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i04WS\_mean vs Slug



Right In: 133177.188 $\pm$ 0.162  $\chi^2$ /NDF: 79827793.9/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

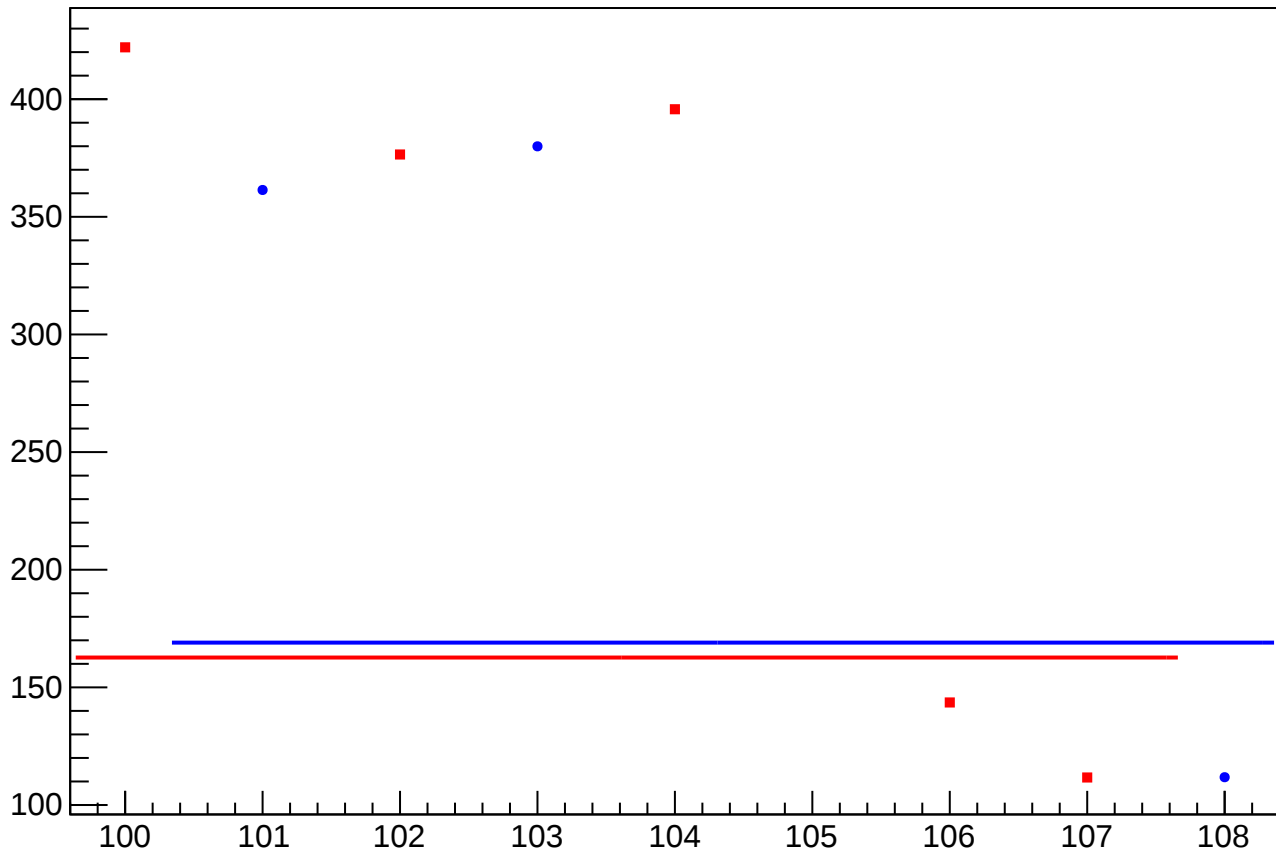
All: 133431.847 $\pm$ 0.109  $\chi^2$ /NDF: 208697376

Right Out: 133638.117 $\pm$ 0.146  $\chi^2$ /NDF: 124412023.8/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i04WS\_rms vs Slug



Right In: 169.023+/-0.115  $\chi^2/\text{NDF}$ : 874825.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 162.681+/-0.103  $\chi^2/\text{NDF}$ : 901572.7/4

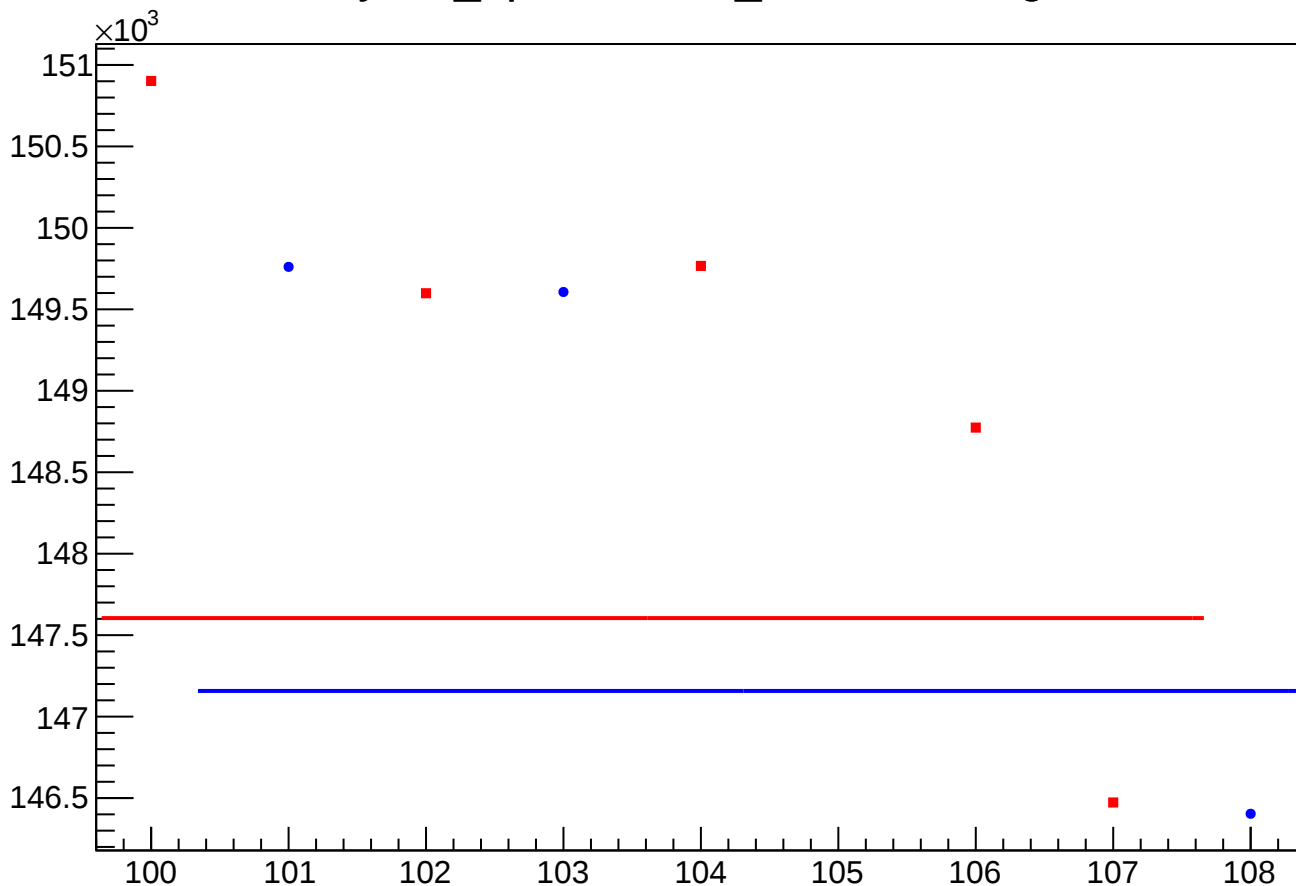
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 165.519+/-0.077  $\chi^2/\text{NDF}$ : 1778085.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06WS\_mean vs Slug



Right In: 147157.544 $\pm$ 0.180  $\chi^2$ /NDF: 58707436.6/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

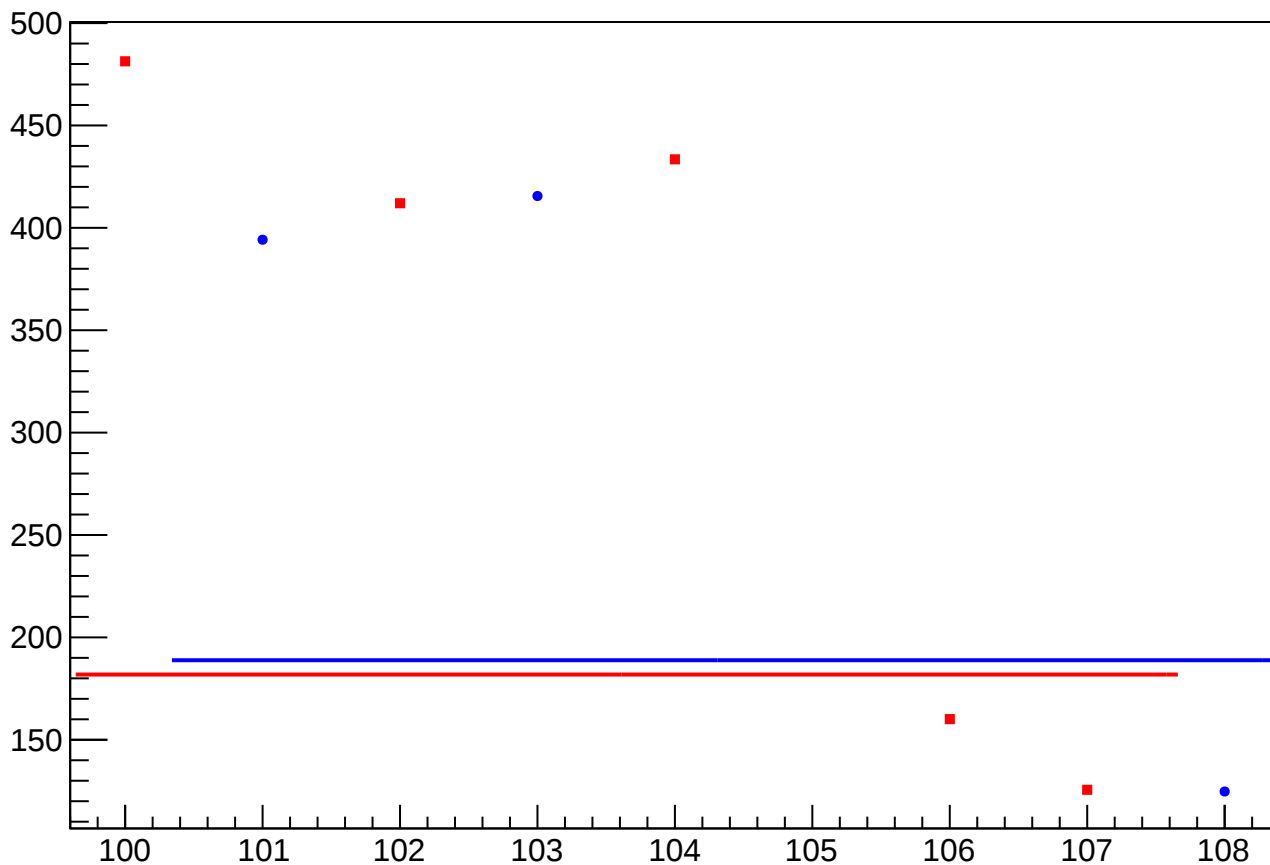
All: 147407.759 $\pm$ 0.120  $\chi^2$ /NDF: 133508419

Right Out: 147604.773 $\pm$ 0.160  $\chi^2$ /NDF: 71361315.3/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i06WS\_rms vs Slug



Right In: 188.843+/-0.128  $\chi^2/\text{NDF}$ : 849835.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 181.859+/-0.113  $\chi^2/\text{NDF}$ : 878023.1/4

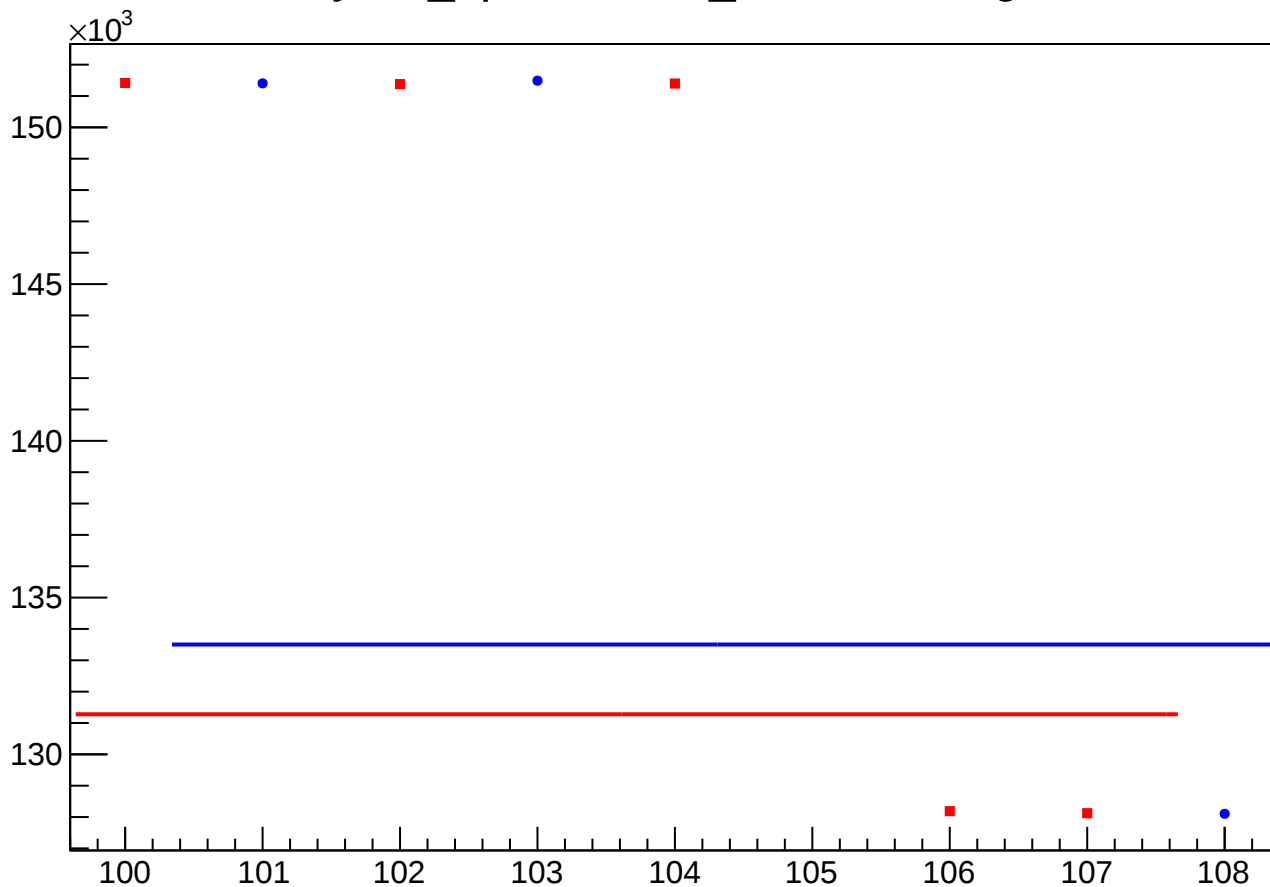
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 184.935+/-0.085  $\chi^2/\text{NDF}$ : 1729536.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01WS\_mean vs Slug



Right In: 133502.885 $\pm$ 0.178  $\chi^2$ /NDF: 3056987785.0/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

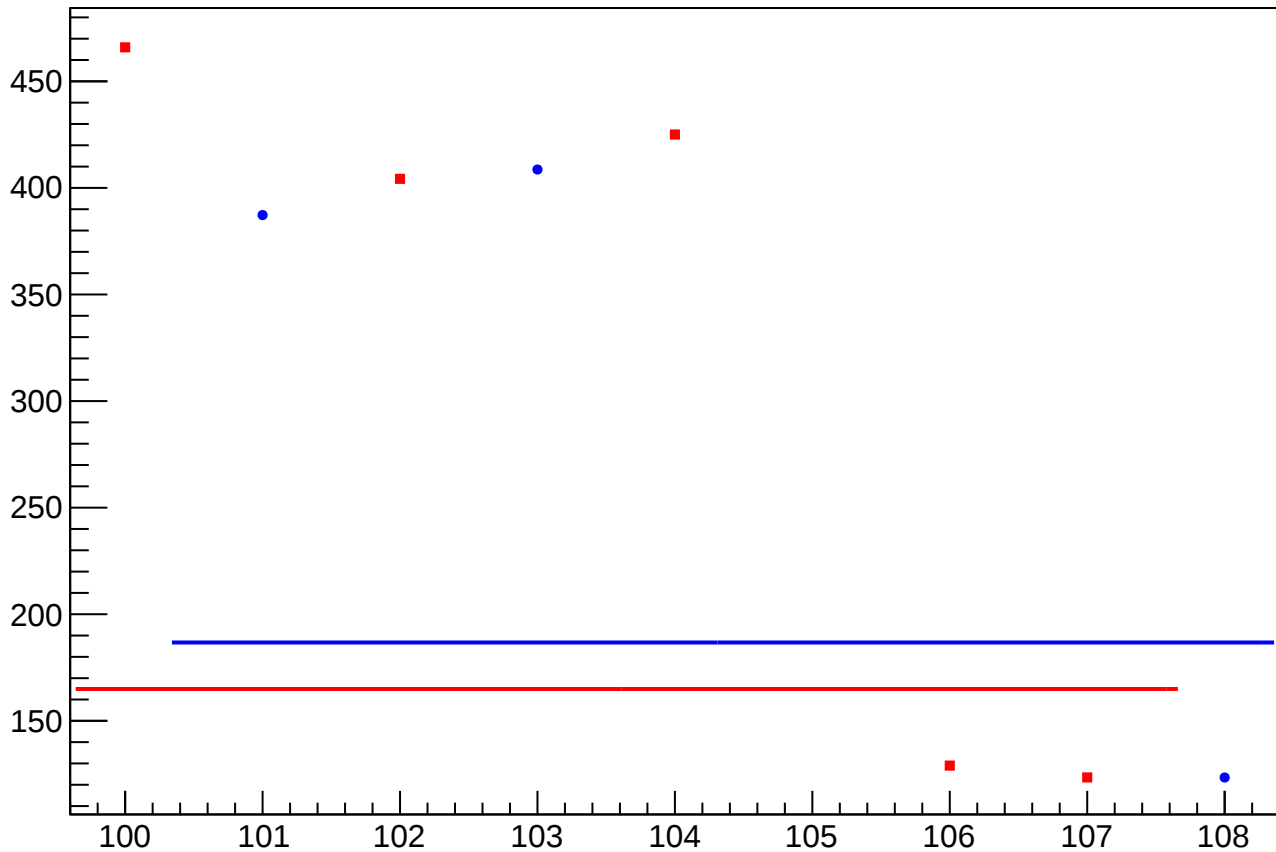
Right Out: 131278.176 $\pm$ 0.145  $\chi^2$ /NDF: 2983890465.6/4

All: 132166.883 $\pm$ 0.113  $\chi^2$ /NDF: 613467729

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i01WS\_rms vs Slug



Right In: 186.742 $\pm$ 0.126  $\chi^2$ /NDF: 842797.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 164.935 $\pm$ 0.103  $\chi^2$ /NDF: 935311.0/4

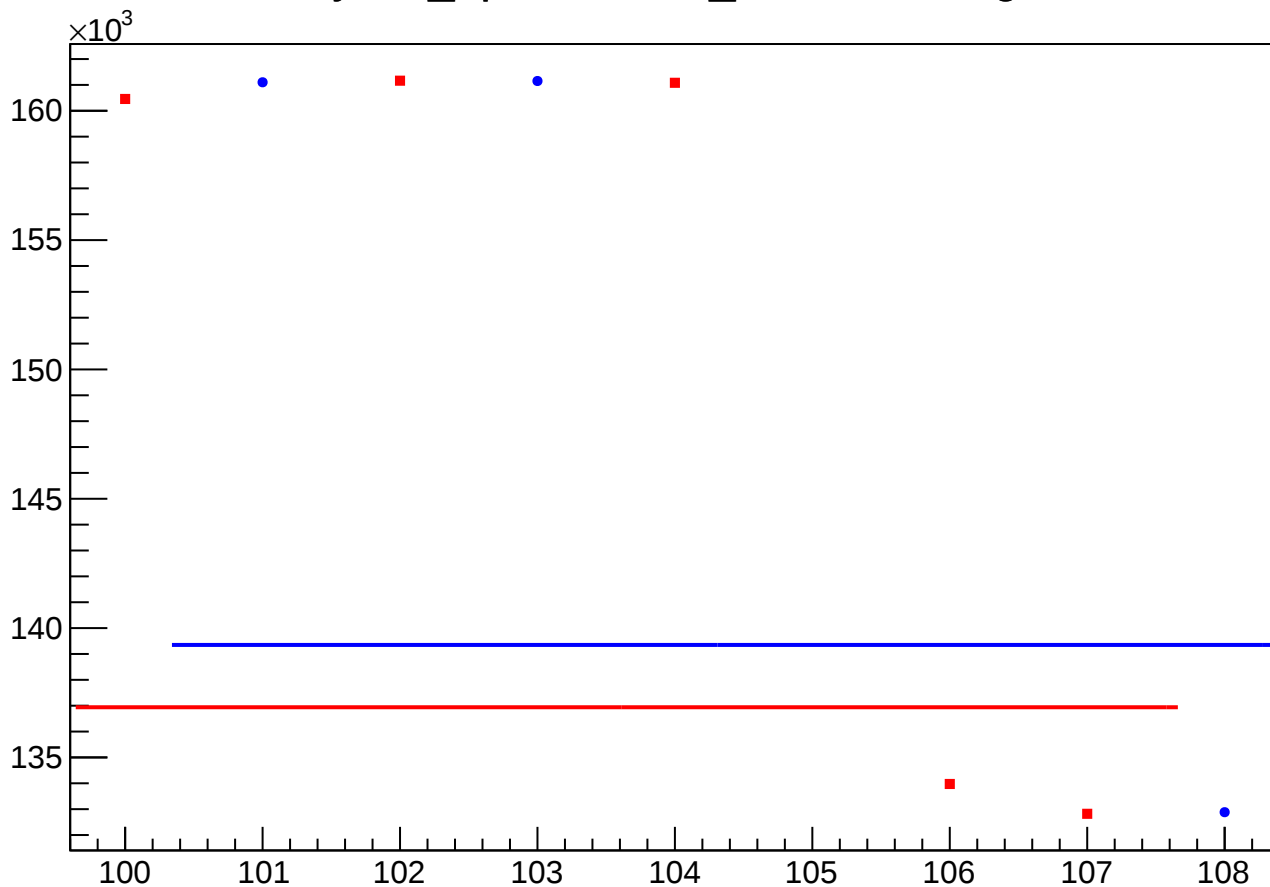
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 173.646 $\pm$ 0.080  $\chi^2$ /NDF: 1796133.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i02WS\_mean vs Slug



Right In: 139349.288 $\pm$ 0.187  $\chi^2$ /NDF: 4030174506.3/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

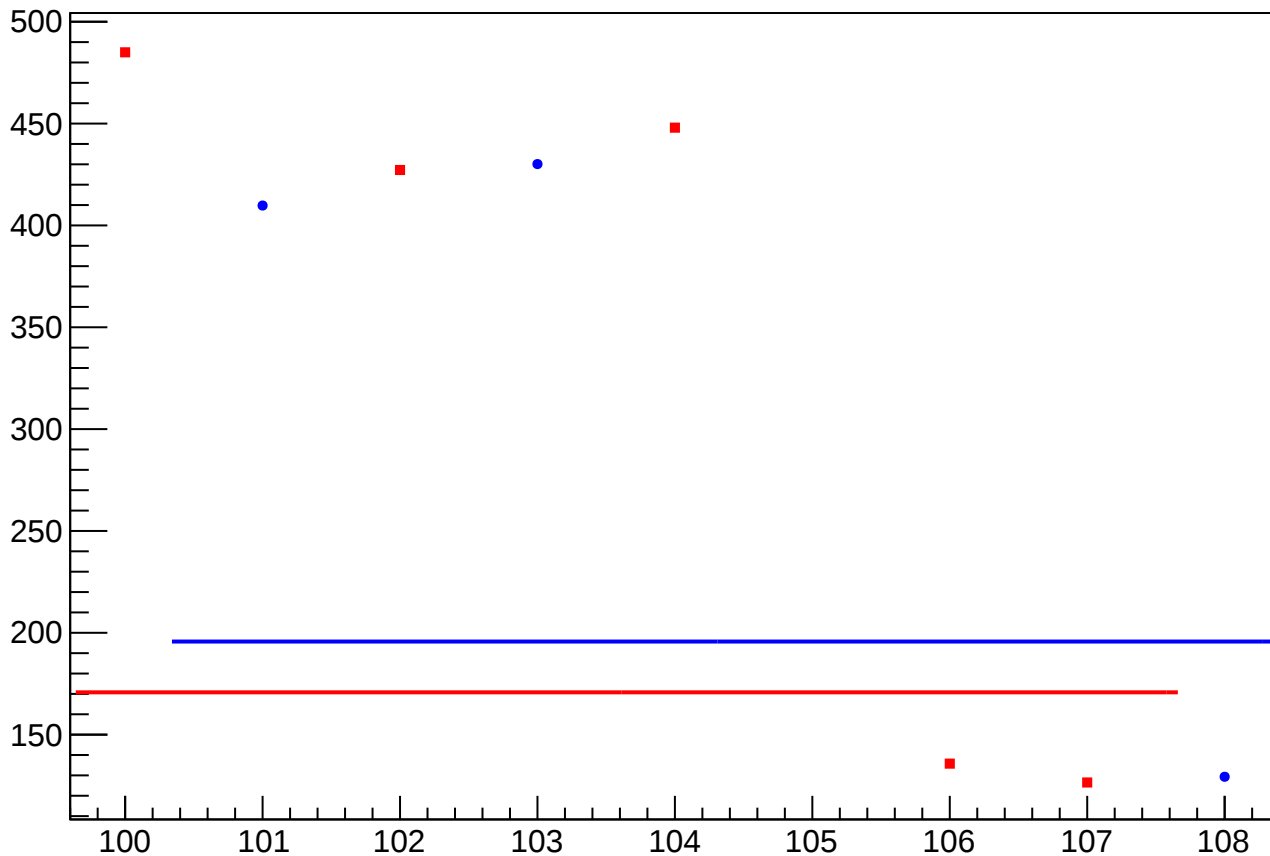
All: 137890.941 $\pm$ 0.117  $\chi^2$ /NDF: 79936231.1

Right Out: 136939.864 $\pm$ 0.151  $\chi^2$ /NDF: 3862877600.2/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i02WS\_rms vs Slug



Right In: 195.709+/-0.132  $\chi^2/\text{NDF}$ : 850809.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 170.771+/-0.107  $\chi^2/\text{NDF}$ : 954459.5/4

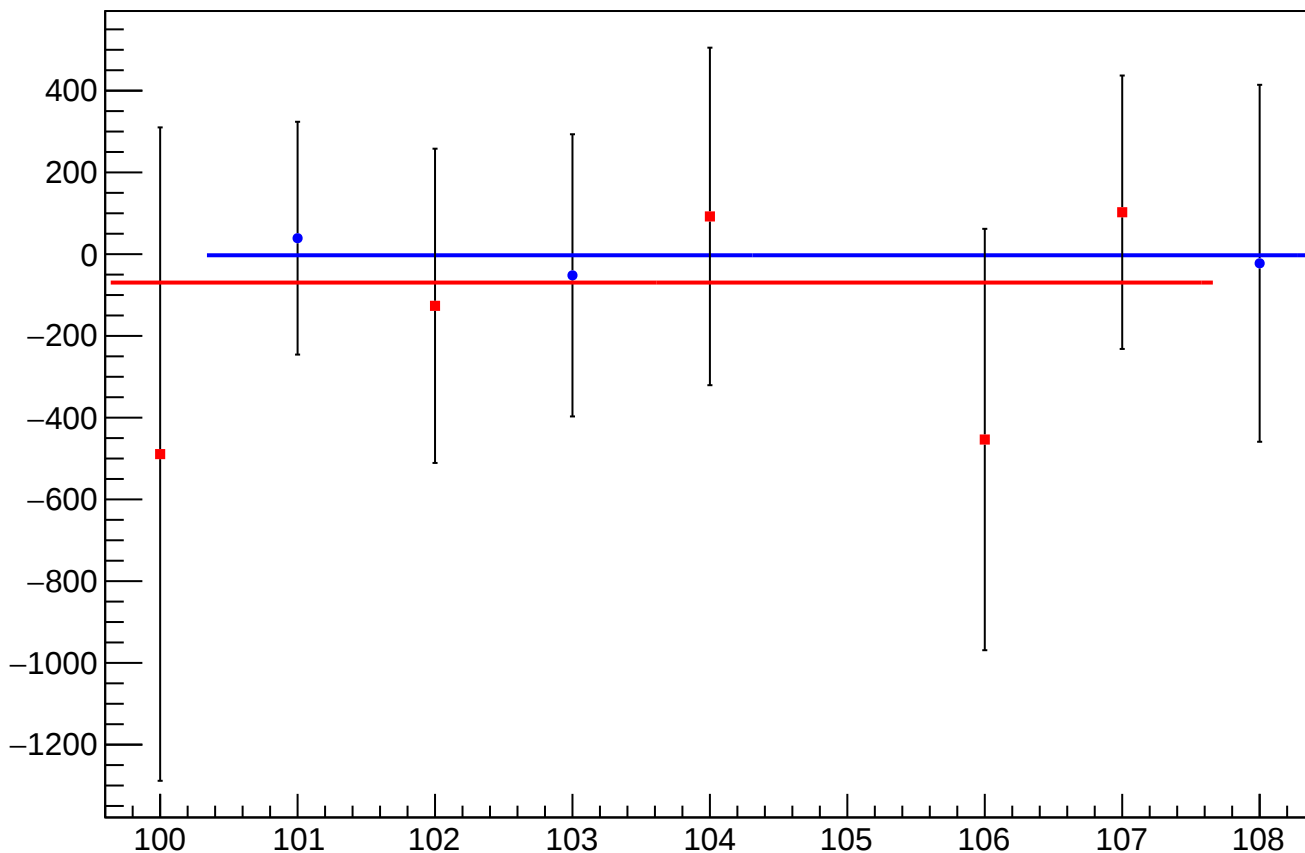
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 180.615+/-0.083  $\chi^2/\text{NDF}$ : 1826815.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_ds\_mean vs Slug



Right In: -2.693+/-196.248  $\chi^2/\text{NDF}$ : 0.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -69.488+/-192.807  $\chi^2/\text{NDF}$ : 1.3/4

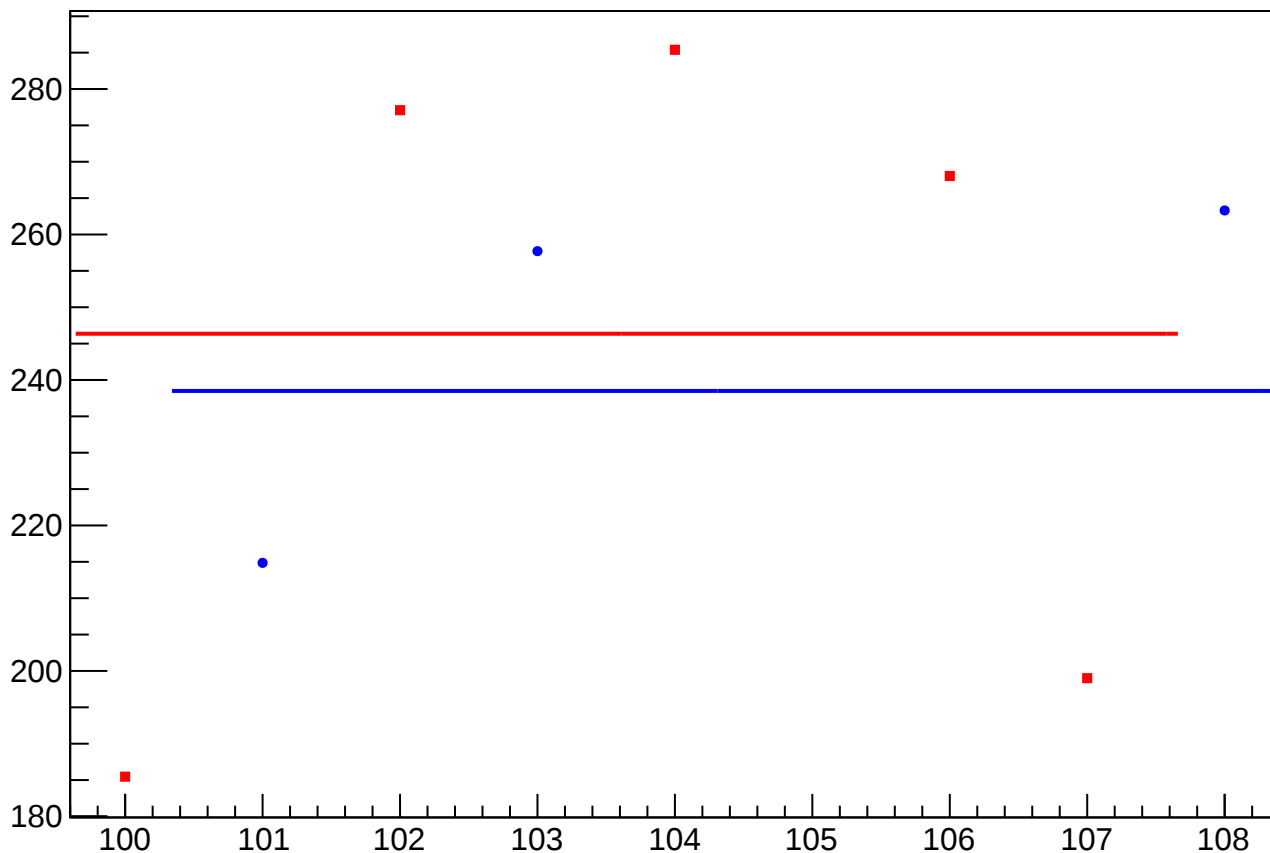
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -36.681+/-137.536  $\chi^2/\text{NDF}$ : 1.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_ds\_rms vs Slug



Right In: 238.494 $\pm$ 0.139  $\chi^2$ /NDF: 26428.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 246.357 $\pm$ 0.136  $\chi^2$ /NDF: 85886.9/4

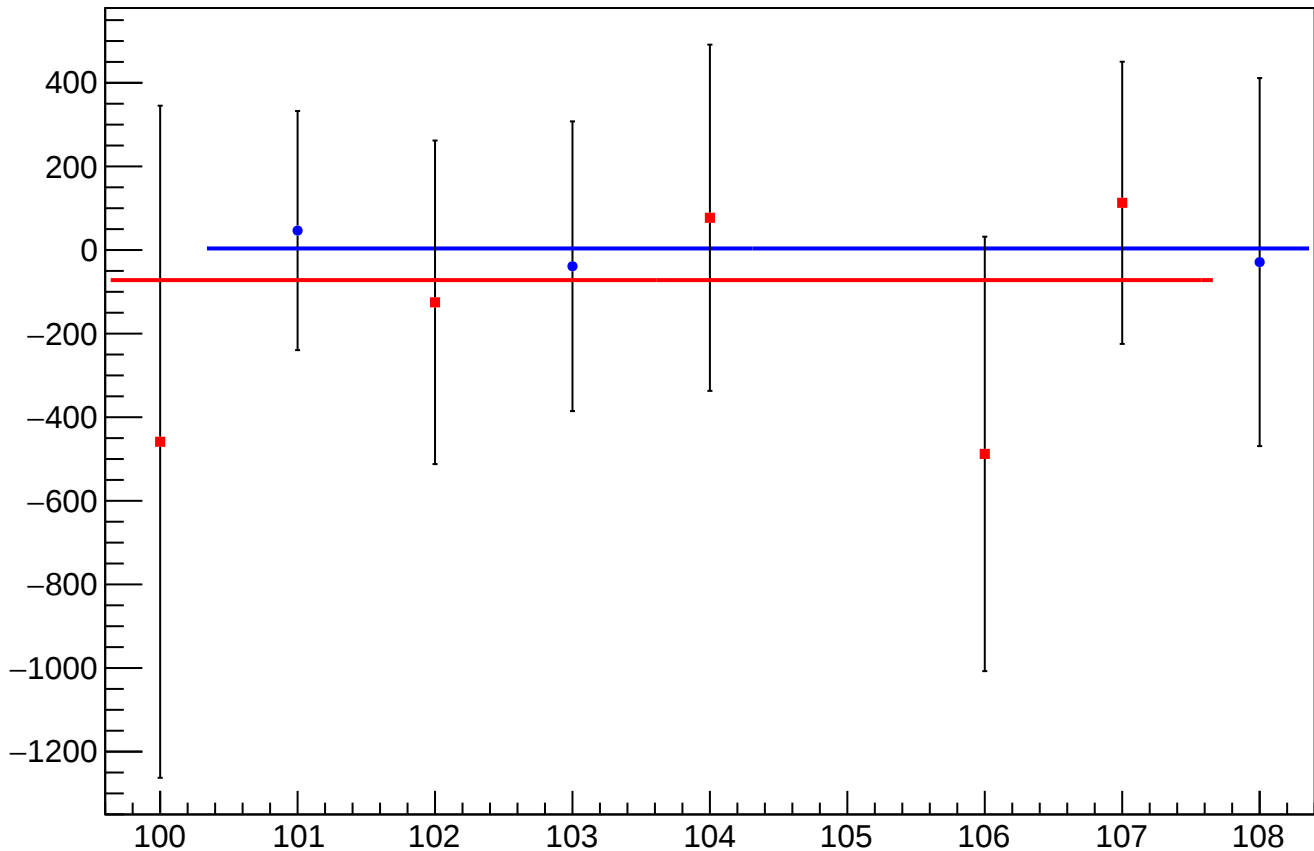
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 242.495 $\pm$ 0.097  $\chi^2$ /NDF: 113949.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_ds3\_mean vs Slug



Right In: 3.757+/-197.226  $\chi^2/\text{NDF}$ : 0.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -71.979+/-194.132  $\chi^2/\text{NDF}$ : 1.3/4

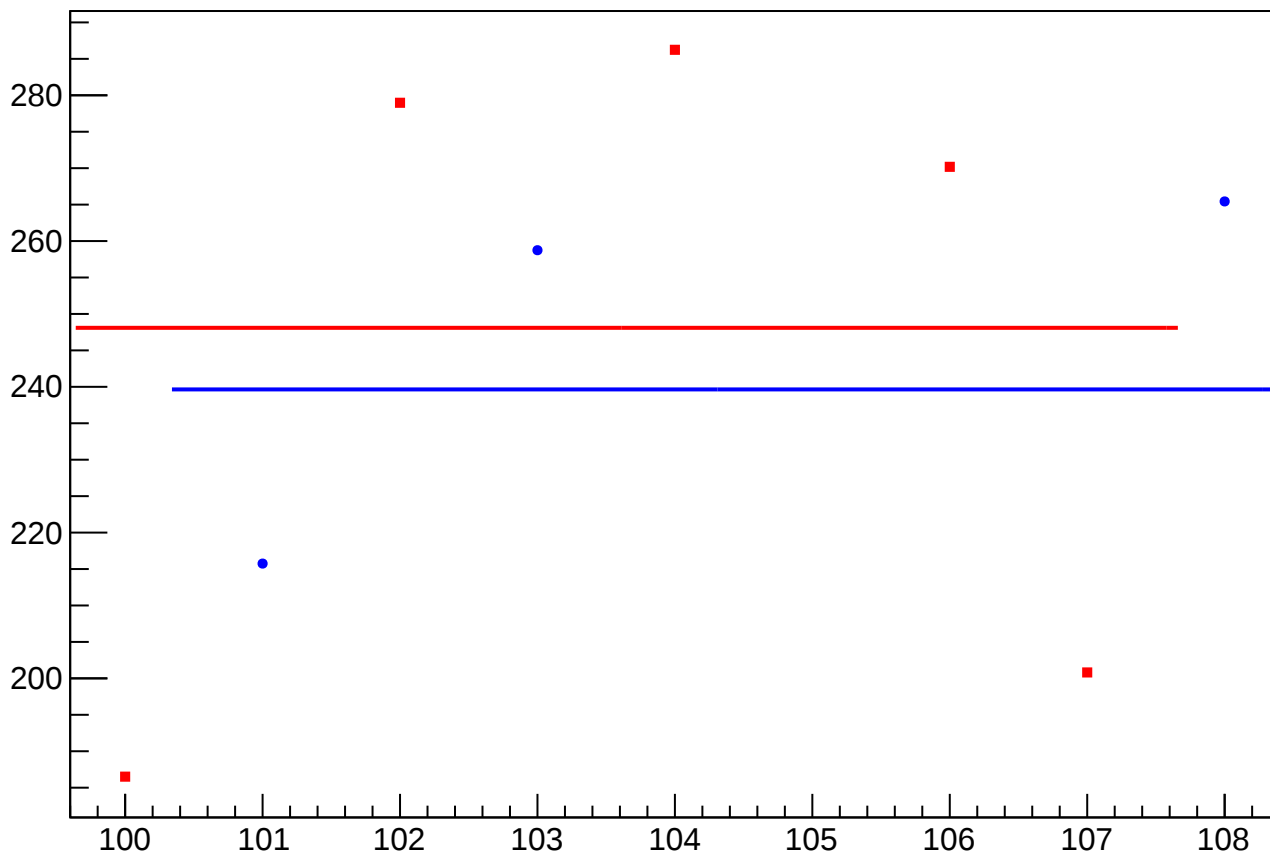
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -34.710+/-138.353  $\chi^2/\text{NDF}$ : 1.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_an\_ds3\_rms vs Slug



Right In: 239.644 $\pm$ 0.139  $\chi^2$ /NDF: 26899.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 248.096 $\pm$ 0.137  $\chi^2$ /NDF: 84298.1/4

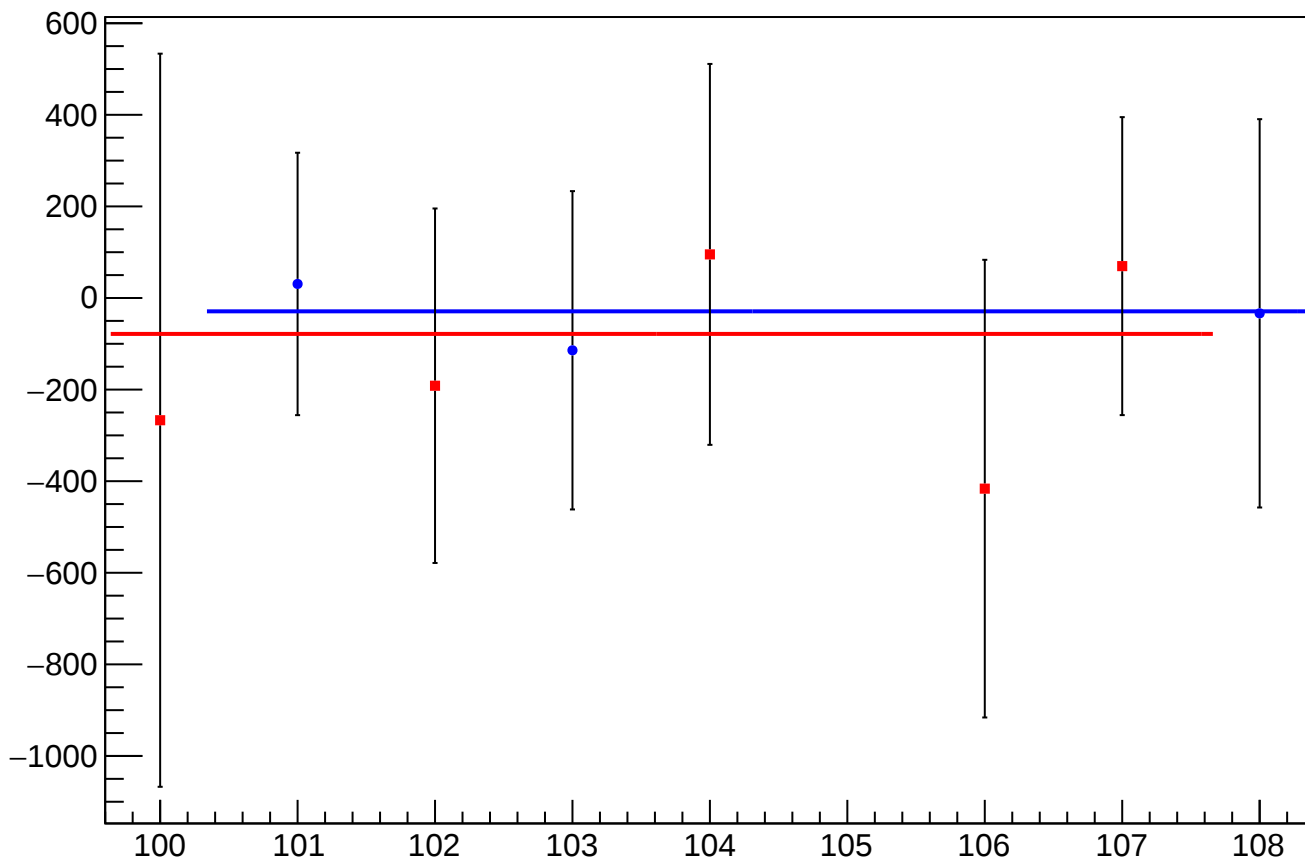
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 243.937 $\pm$ 0.098  $\chi^2$ /NDF: 113063.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_us\_mean vs Slug



Right In: -29.119 $\pm$ 196.019  $\chi^2$ /NDF: 0.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -78.431 $\pm$ 190.790  $\chi^2$ /NDF: 1.0/4

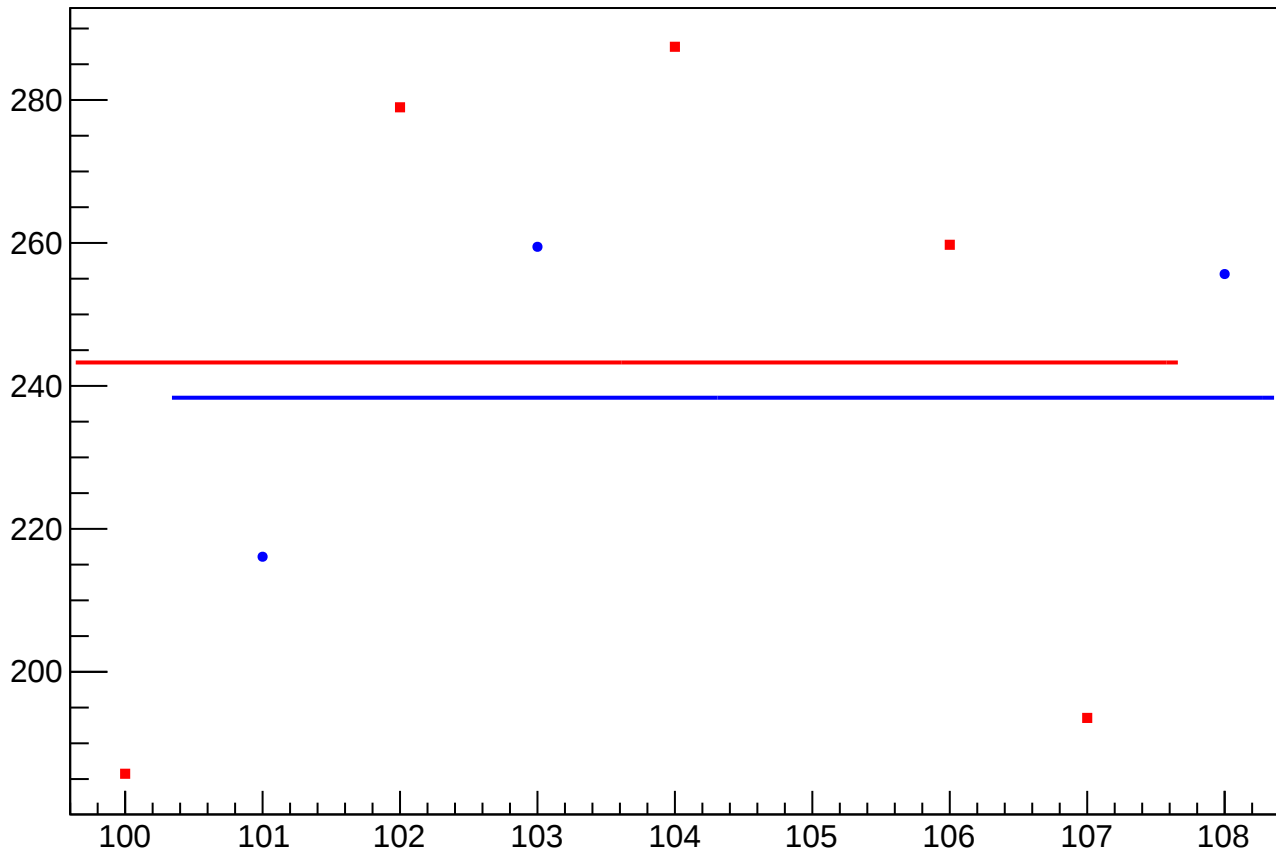
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -54.441 $\pm$ 136.720  $\chi^2$ /NDF: 1.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_us\_rms vs Slug



Right In: 238.348 $\pm$ 0.139  $\chi^2$ /NDF: 22770.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 243.278 $\pm$ 0.135  $\chi^2$ /NDF: 98802.0/4

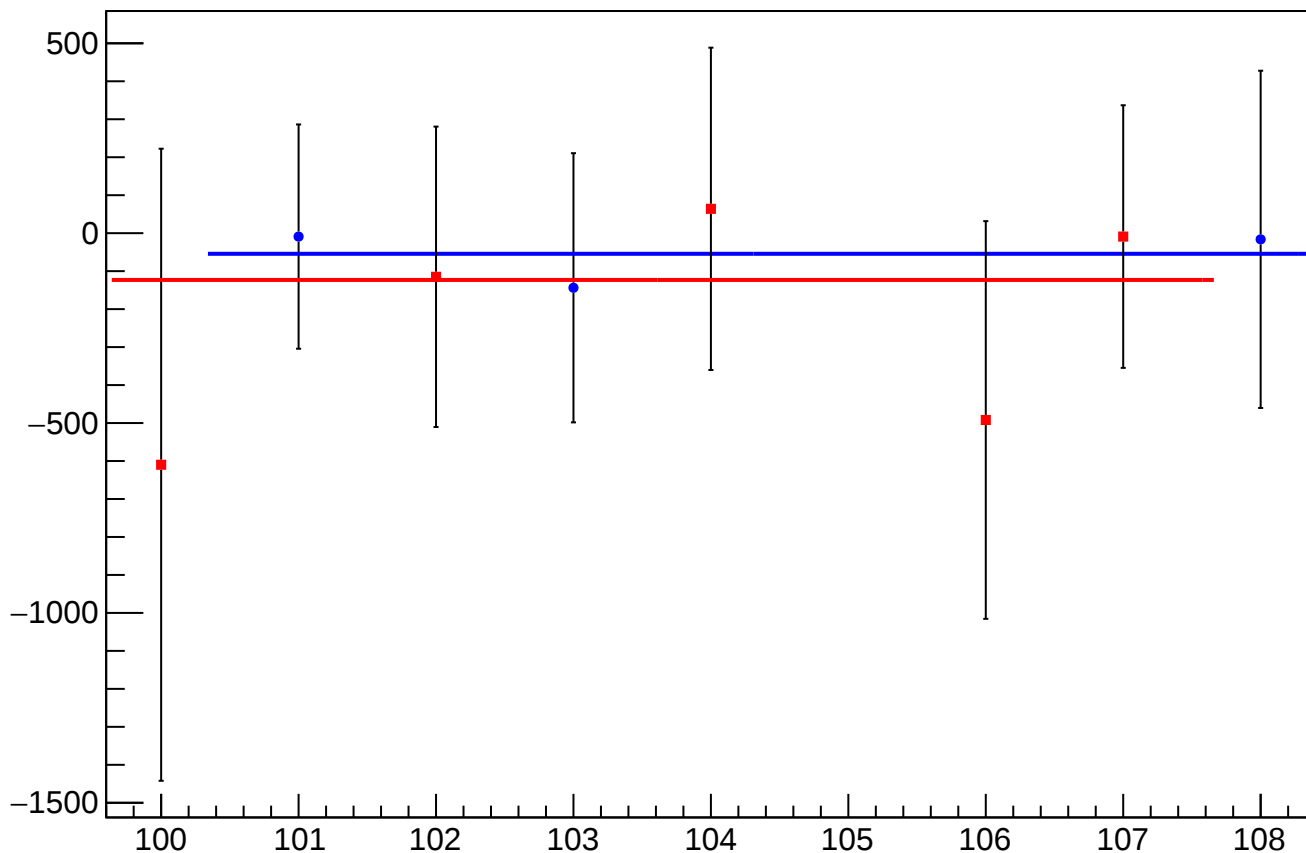
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 240.880 $\pm$ 0.097  $\chi^2$ /NDF: 122221.8/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_mean vs Slug



Right In:  $-54.308 \pm 202.035$   $\chi^2/\text{NDF}$ : 0.1/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-123.169 \pm 198.430$   $\chi^2/\text{NDF}$ : 1.1/4

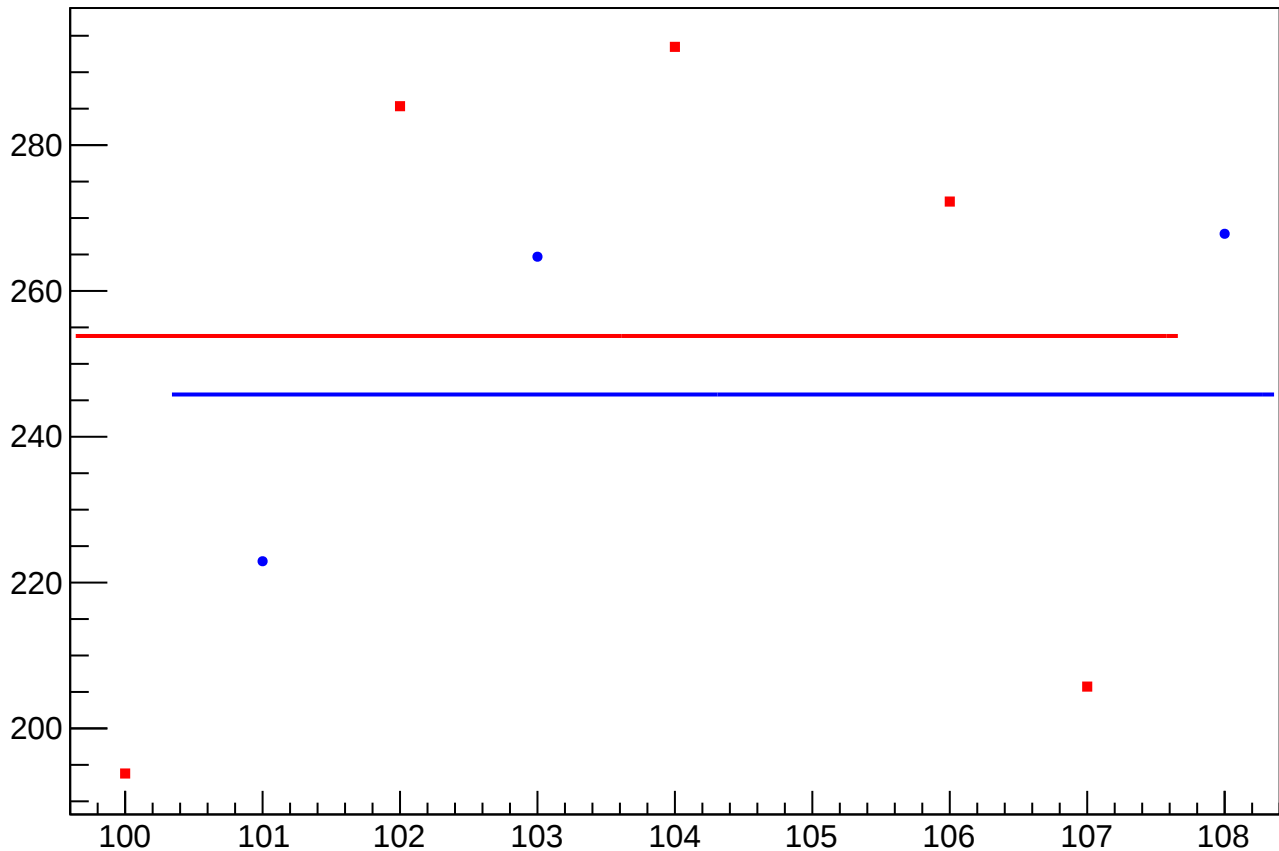
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-89.358 \pm 141.568$   $\chi^2/\text{NDF}$ : 1.3/7

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_rms vs Slug



Right In: 245.797 $\pm$ 0.143  $\chi^2$ /NDF: 22609.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 253.823 $\pm$ 0.140  $\chi^2$ /NDF: 81714.3/4

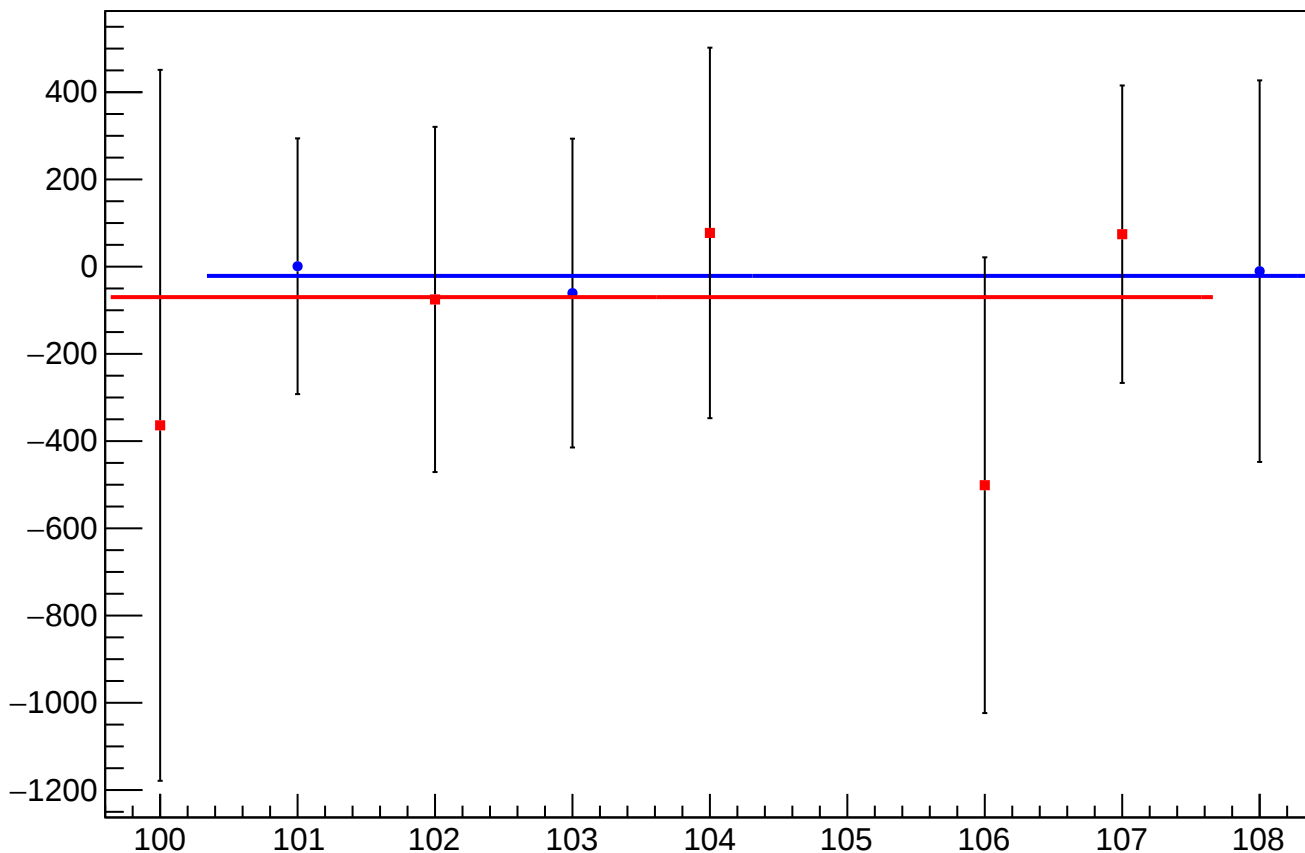
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 249.882 $\pm$ 0.100  $\chi^2$ /NDF: 105929.9/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_ds\_mean vs Slug



Right In:  $-21.188 \pm 200.653$   $\chi^2/\text{NDF}$ : 0.0/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-69.858 \pm 197.278$   $\chi^2/\text{NDF}$ : 1.1/4

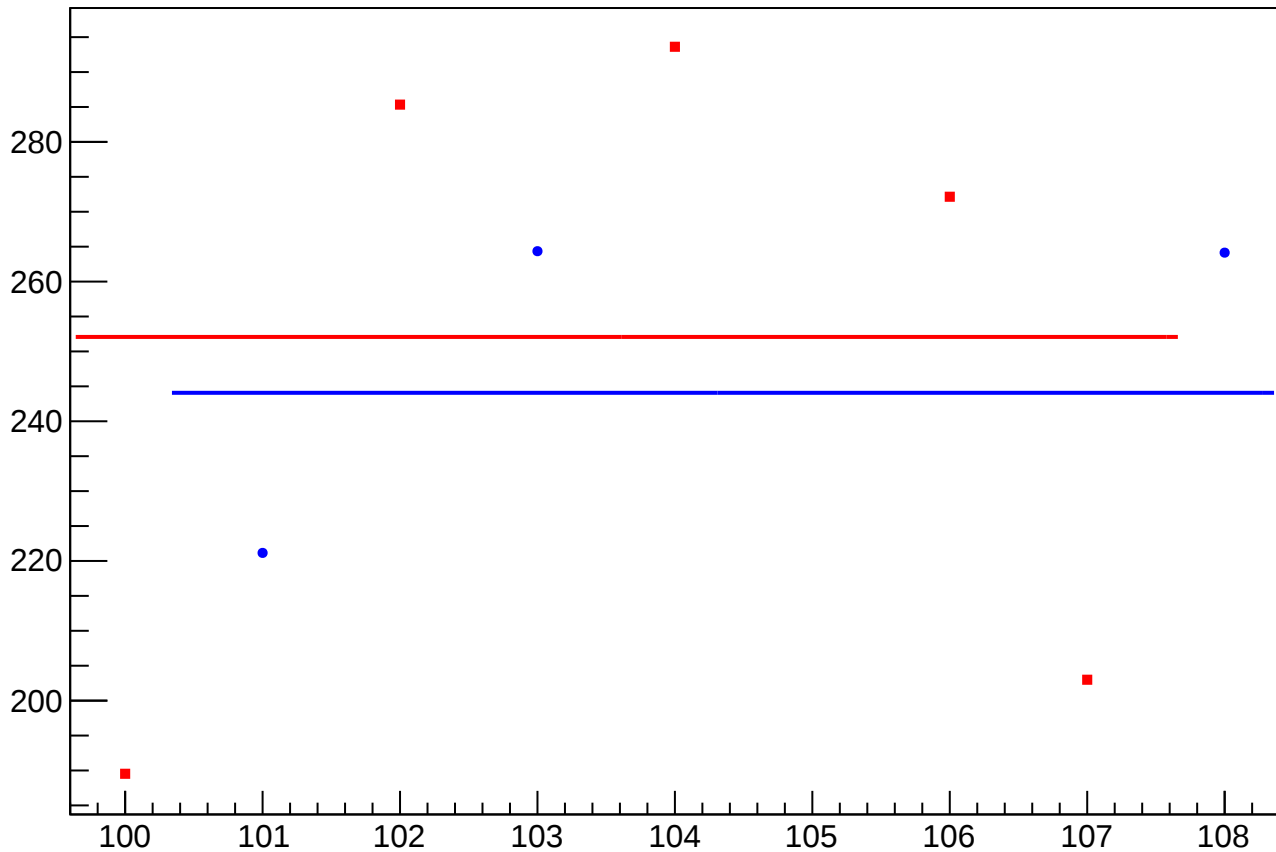
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-45.936 \pm 140.675$   $\chi^2/\text{NDF}$ : 1.2/7

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_rms vs Slug



Right In: 244.076 $\pm$ 0.142  $\chi^2$ /NDF: 22995.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 252.076 $\pm$ 0.139  $\chi^2$ /NDF: 89421.4/4

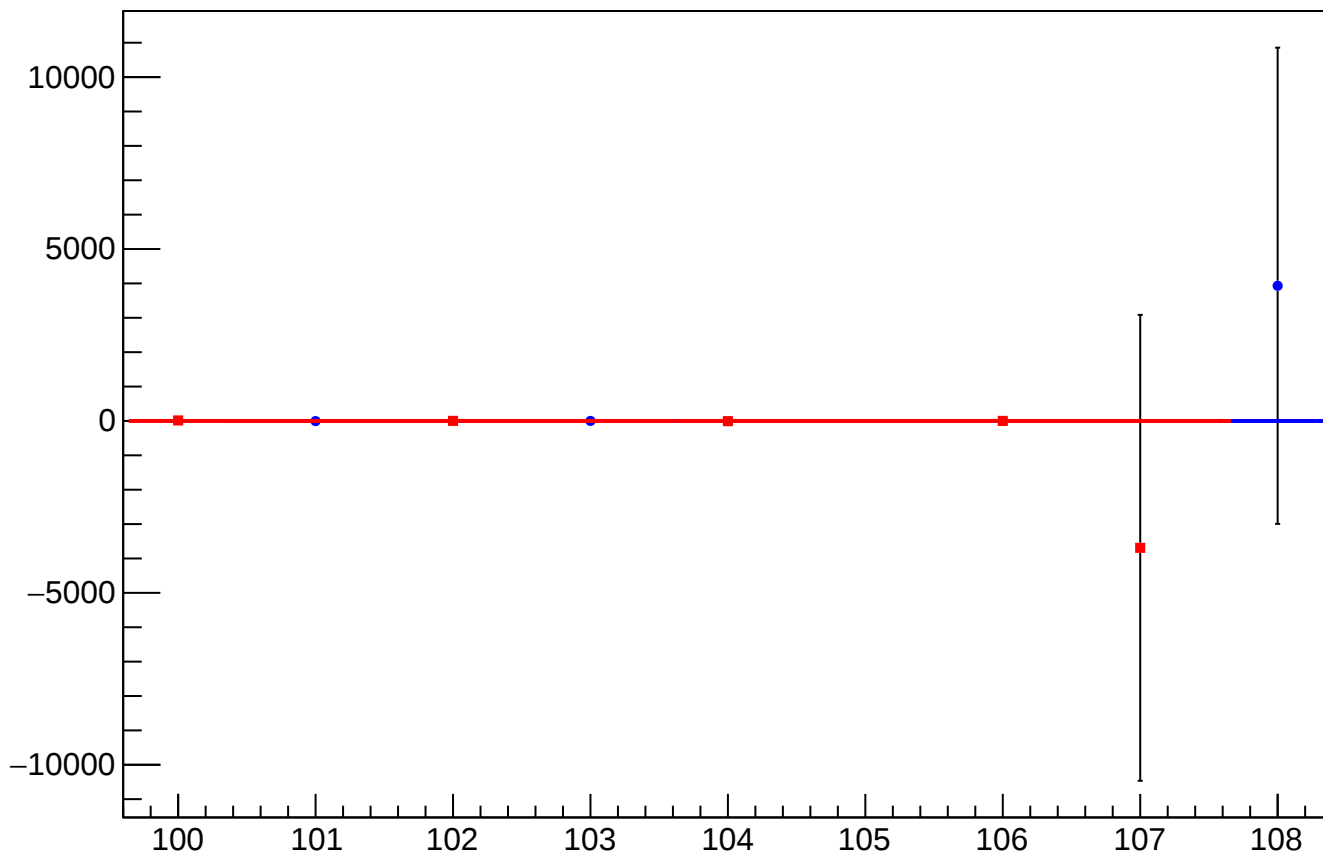
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 248.144 $\pm$ 0.099  $\chi^2$ /NDF: 114033.2/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4bQ\_mean vs Slug



Right In: -1.520 $\pm$ 2.252  $\chi^2$ /NDF: 1.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -0.712 $\pm$ 2.111  $\chi^2$ /NDF: 6.2/4

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.090 $\pm$ 1.540  $\chi^2$ /NDF: 7.9/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4bQ\_rms vs Slug



Right In: 2.411+/-0.002  $\chi^2/\text{NDF}$ : 768090.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.396+/-0.001  $\chi^2/\text{NDF}$ : 721918.8/4

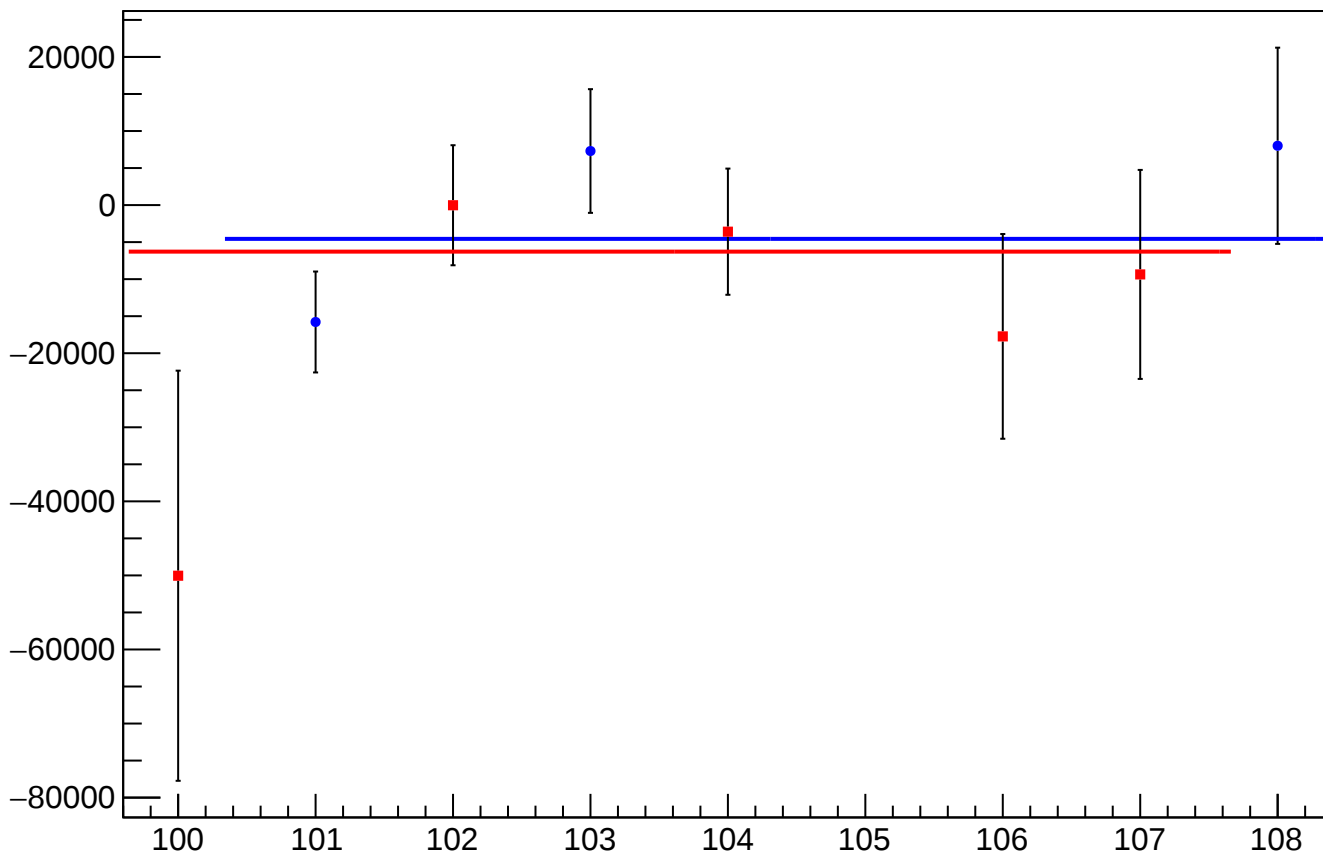
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.403+/-0.001  $\chi^2/\text{NDF}$ : 1490054.7/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4cQ\_mean vs Slug



Right In: -4561.465+/-4904.055  $\chi^2$ /NDF: 5.6/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6284.059+/-4964.971  $\chi^2$ /NDF: 3.9/4

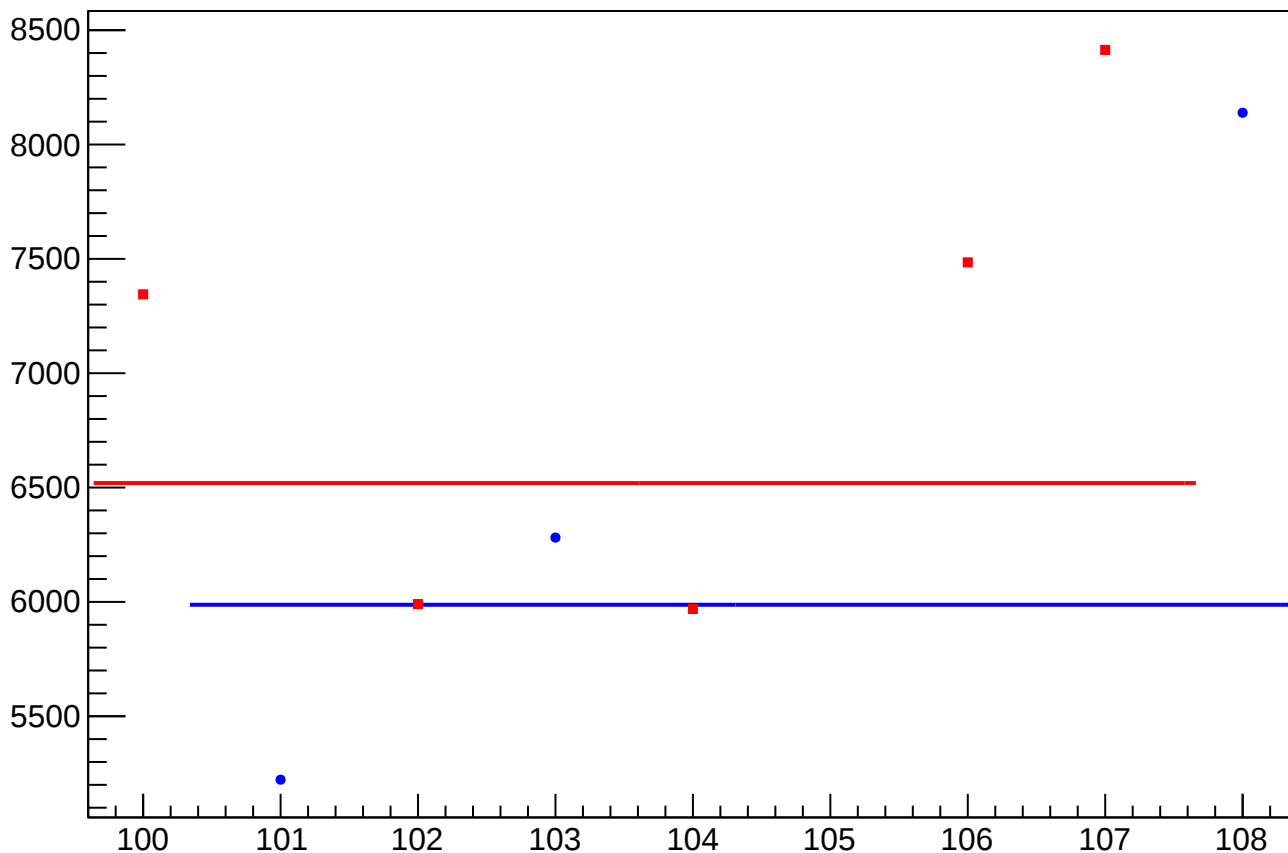
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -5412.130+/-3489.028  $\chi^2$ /NDF: 9.6/7

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4cQ\_rms vs Slug



Right In: 5987.406 $\pm$ 3.468  $\chi^2$ /NDF: 80446.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 6519.622 $\pm$ 3.511  $\chi^2$ /NDF: 64442.1/4

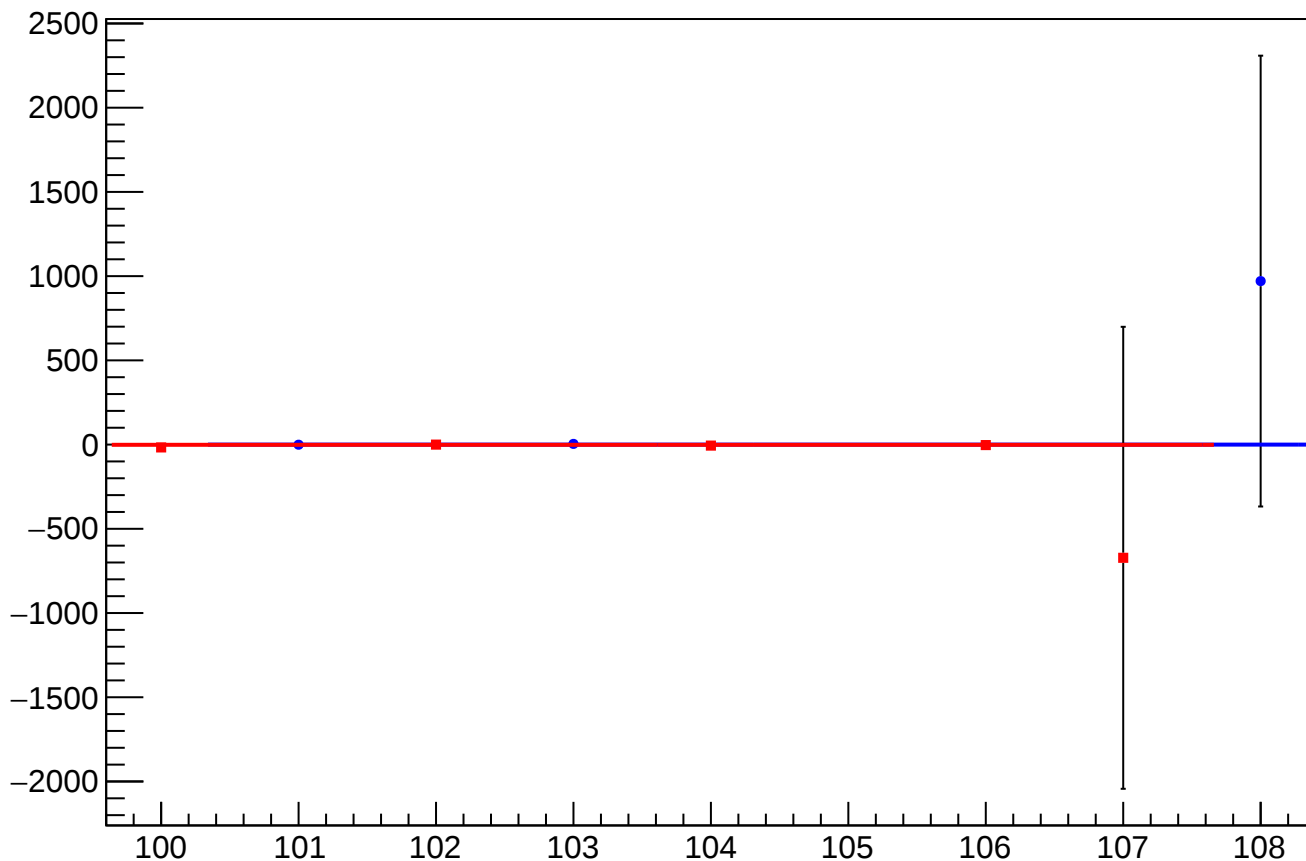
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6250.229 $\pm$ 2.467  $\chi^2$ /NDF: 156521.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4dQ\_mean vs Slug



Right In:  $-0.158 \pm 1.737$   $\chi^2/\text{NDF}$ : 1.4/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-1.335 \pm 1.623$   $\chi^2/\text{NDF}$ : 3.0/4

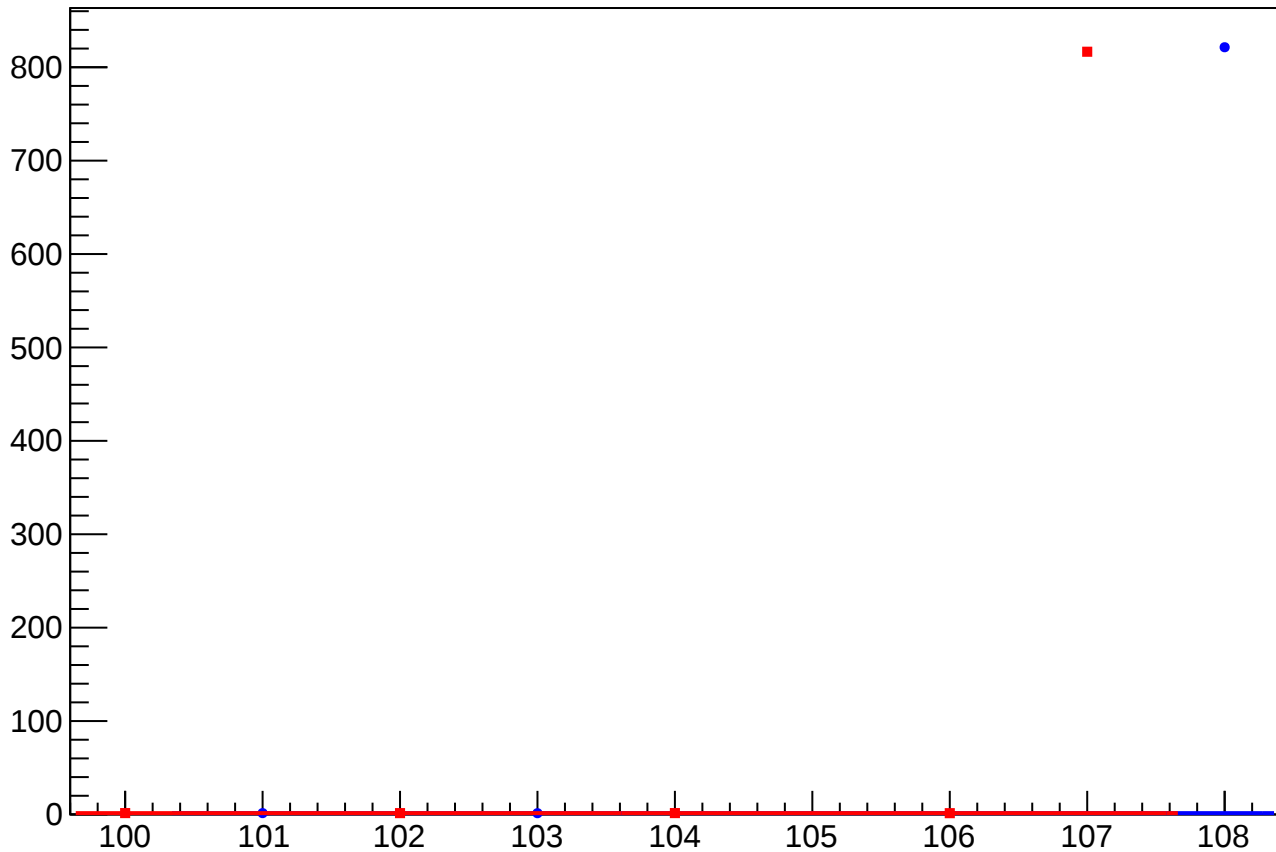
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.787 \pm 1.186$   $\chi^2/\text{NDF}$ : 4.6/7

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4dQ\_rms vs Slug



Right In: 1.413+/-0.001  $\chi^2/\text{NDF}$ : 751385.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.415+/-0.001  $\chi^2/\text{NDF}$ : 707333.9/4

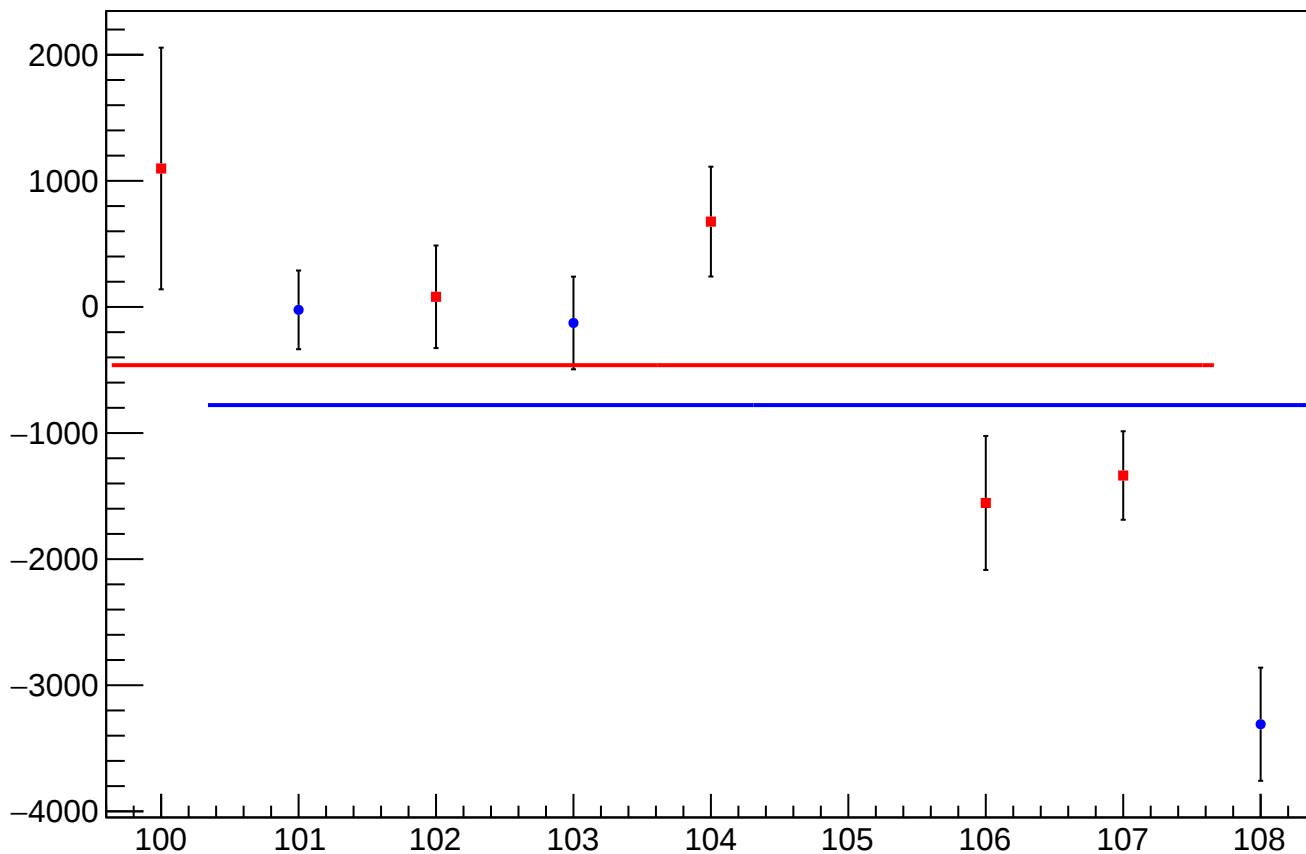
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.414+/-0.001  $\chi^2/\text{NDF}$ : 1458722.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm0l02\_mean vs Slug



Right In: -778.379 $\pm$ 210.173  $\chi^2$ /NDF: 40.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -461.829 $\pm$ 203.816  $\chi^2$ /NDF: 21.7/4

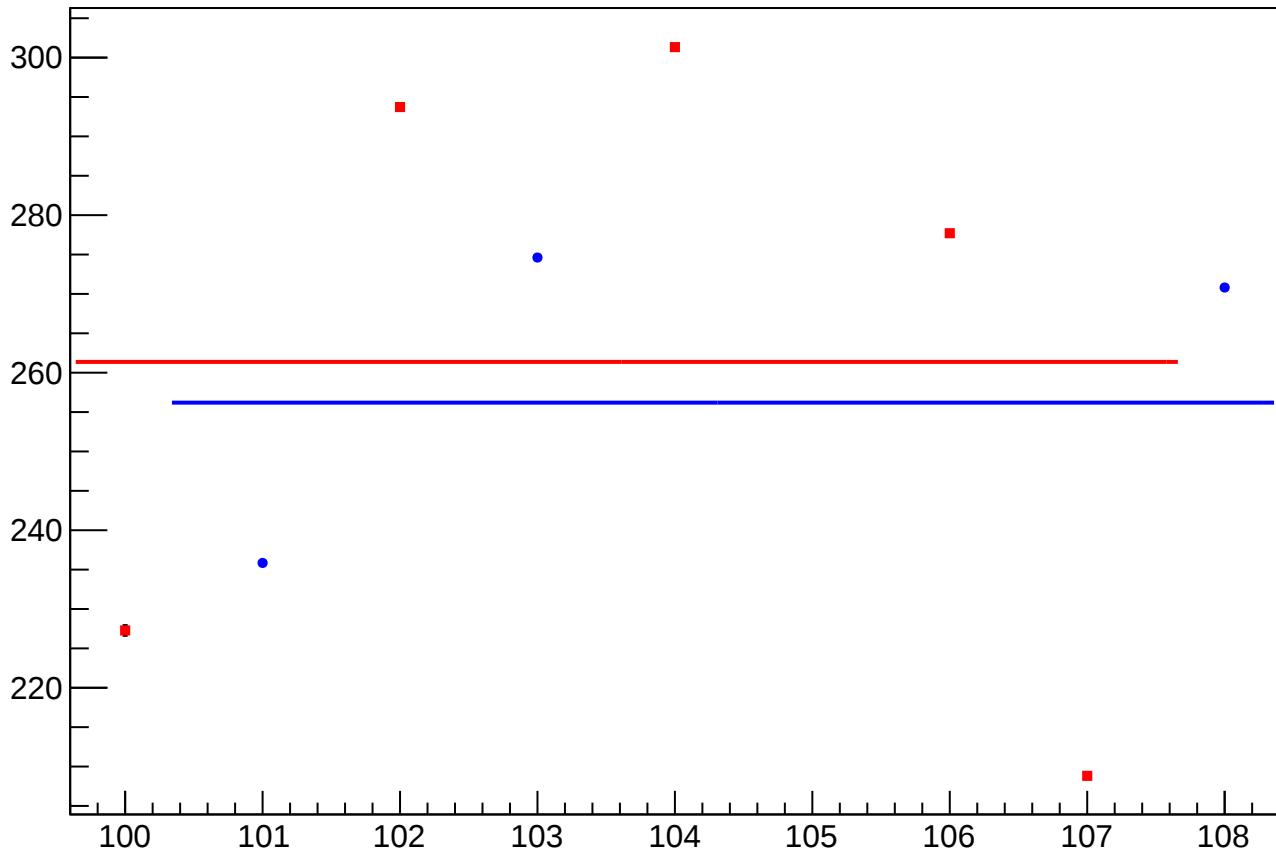
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -615.245 $\pm$ 146.315  $\chi^2$ /NDF: 63.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm0l02\_rms vs Slug



Right In: 256.199 $\pm$ 0.149  $\chi^2$ /NDF: 15650.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 261.371 $\pm$ 0.144  $\chi^2$ /NDF: 78793.3/4

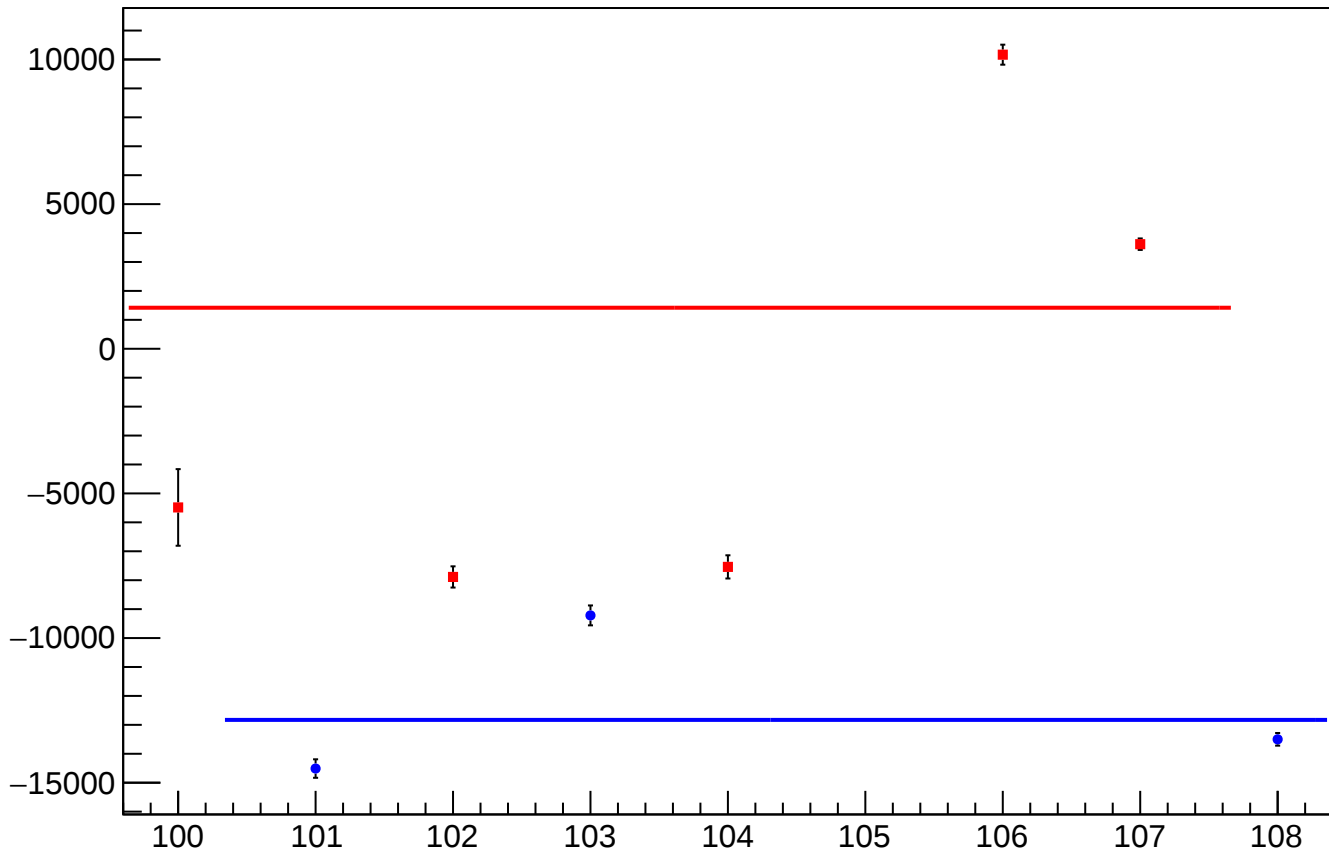
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 258.864 $\pm$ 0.103  $\chi^2$ /NDF: 95067.8/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i02WS\_mean vs Slug



Right In: -12828.986+/-159.873  $\chi^2/\text{NDF}$ : 147.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1418.793+/-144.376  $\chi^2/\text{NDF}$ : 1932.5/4

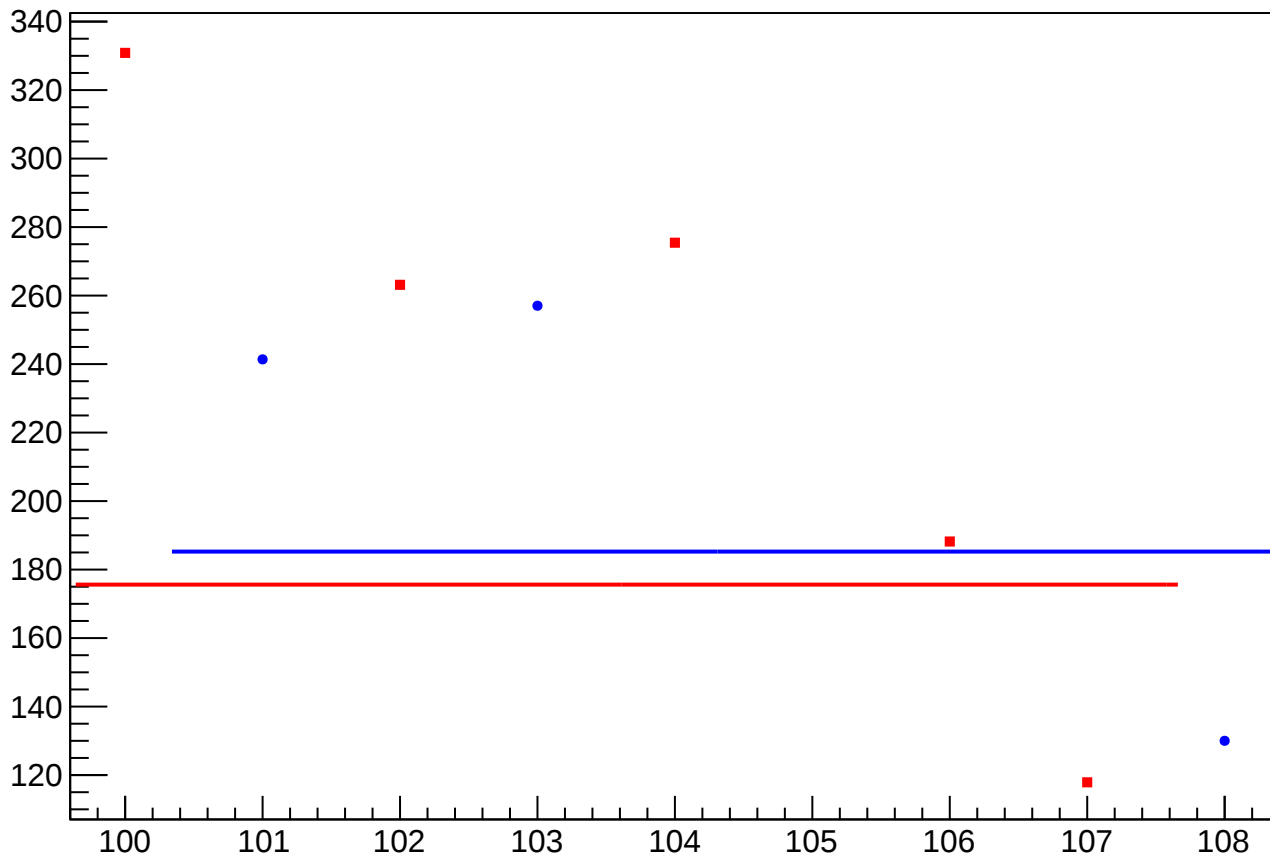
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4981.238+/-107.150  $\chi^2/\text{NDF}$ : 6454.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02WS\_rms vs Slug



Right In: 185.253+/-0.113  $\chi^2/\text{NDF}$ : 276156.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 175.614+/-0.102  $\chi^2/\text{NDF}$ : 437261.2/4

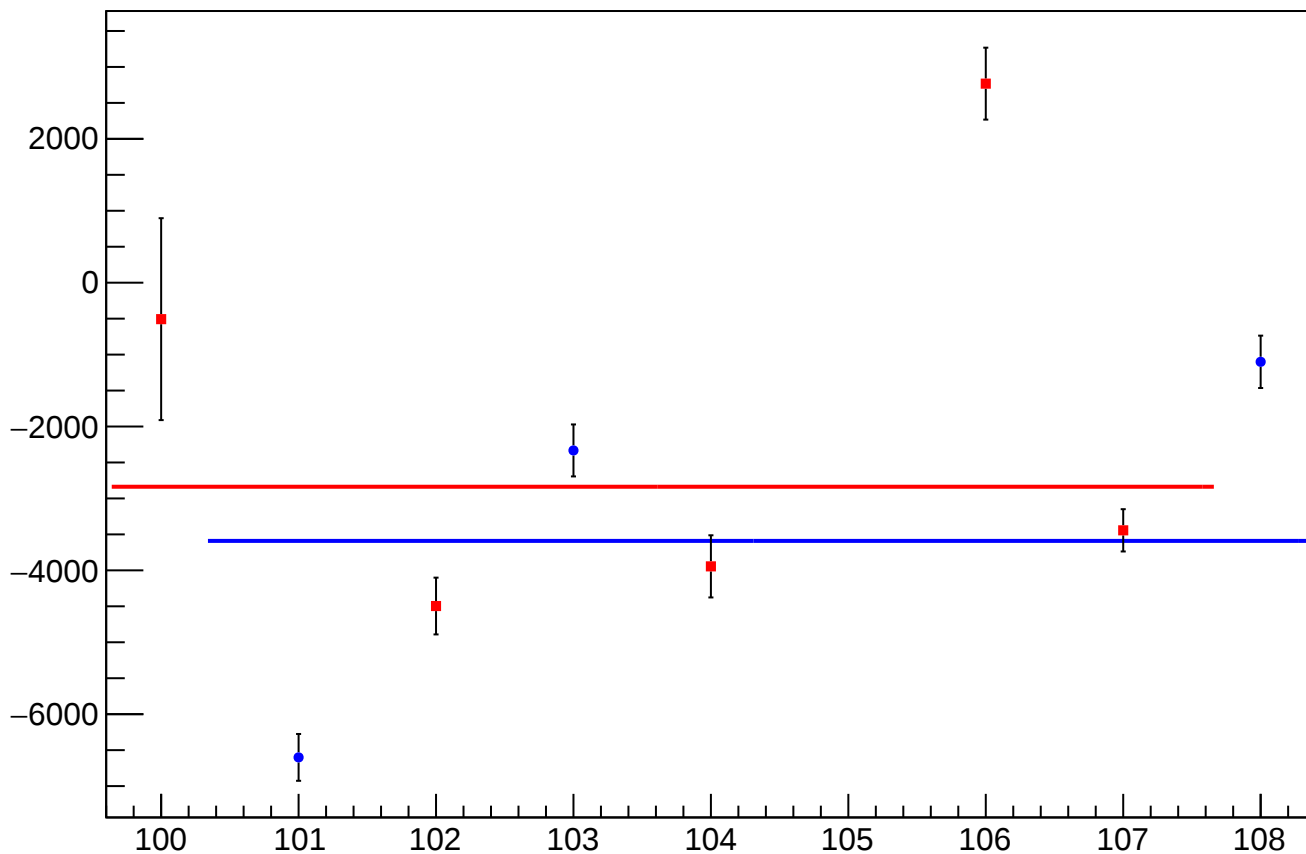
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 179.944+/-0.076  $\chi^2/\text{NDF}$ : 717422.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_mean vs Slug



Right In:  $-3590.469 \pm 201.465$   $\chi^2/\text{NDF}$ : 144.4/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-2837.307 \pm 189.504$   $\chi^2/\text{NDF}$ : 156.8/4

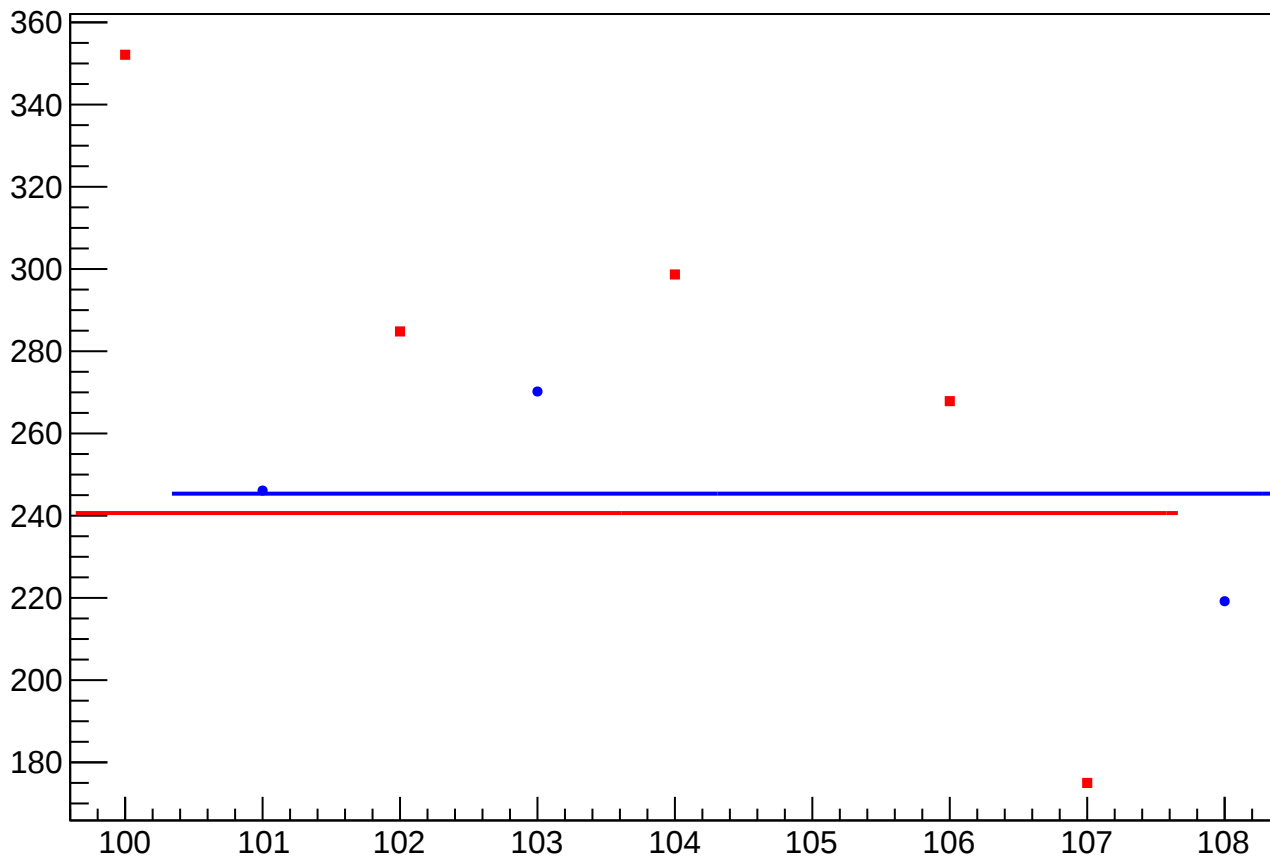
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-3190.869 \pm 138.034$   $\chi^2/\text{NDF}$ : 308.7/7

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_rms vs Slug



Right In: 245.359 $\pm$ 0.142  $\chi^2$ /NDF: 19791.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 240.644 $\pm$ 0.134  $\chi^2$ /NDF: 179372.1/4

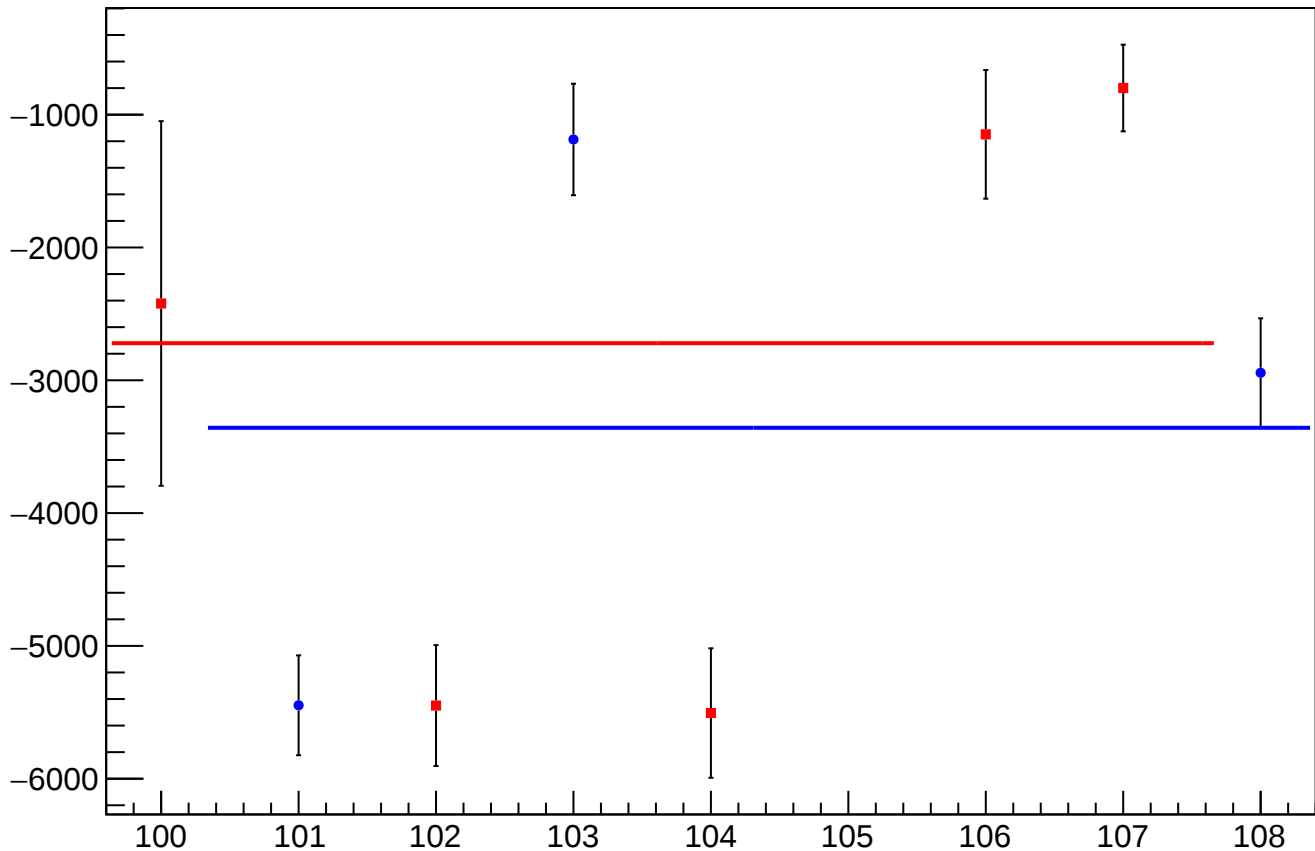
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 242.857 $\pm$ 0.098  $\chi^2$ /NDF: 199745.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i05WS\_mean vs Slug



Right In: -3357.770 $\pm$ 231.283  $\chi^2$ /NDF: 58.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2720.782 $\pm$ 207.542  $\chi^2$ /NDF: 113.8/4

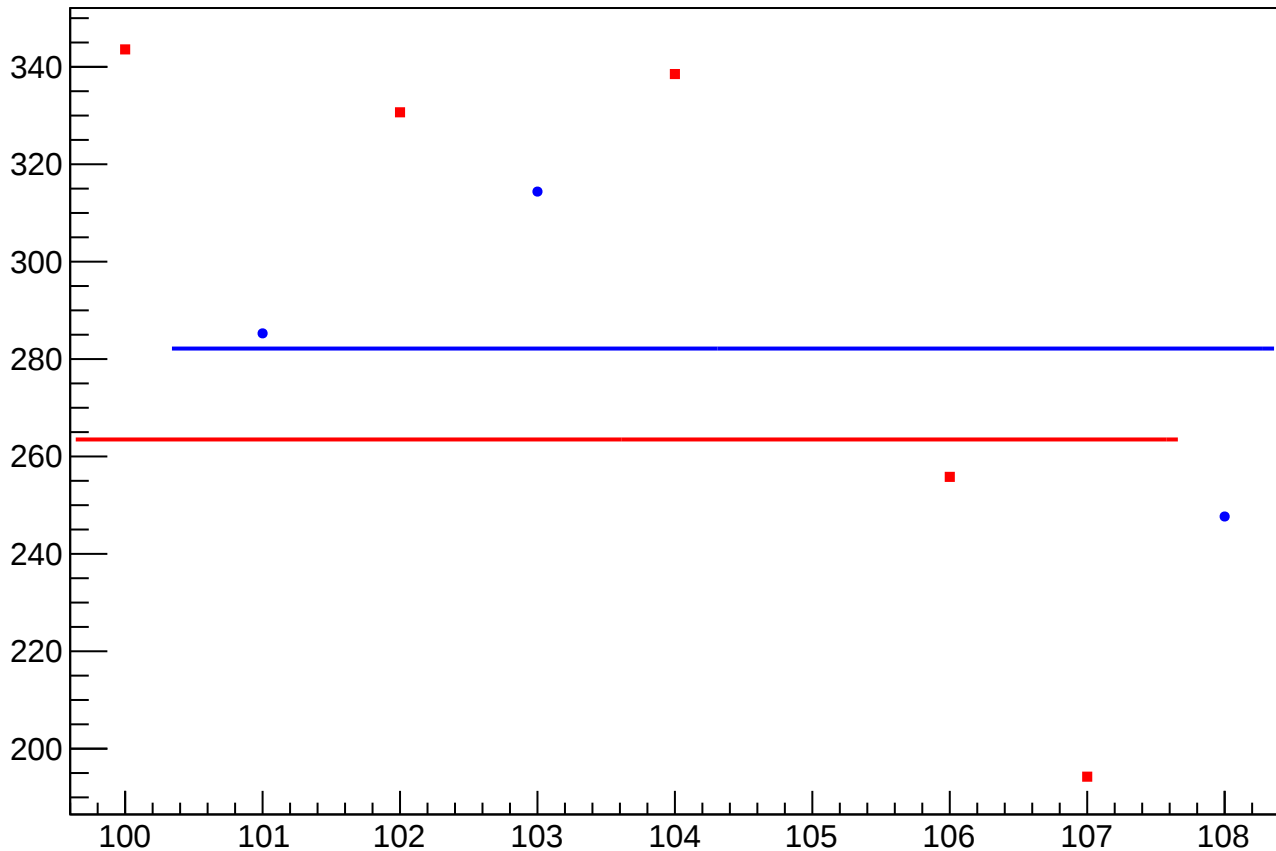
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3004.914 $\pm$ 154.468  $\chi^2$ /NDF: 176.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i05WS\_rms vs Slug



Right In: 282.160 $\pm$ 0.164  $\chi^2$ /NDF: 26067.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 263.491 $\pm$ 0.147  $\chi^2$ /NDF: 188285.2/4

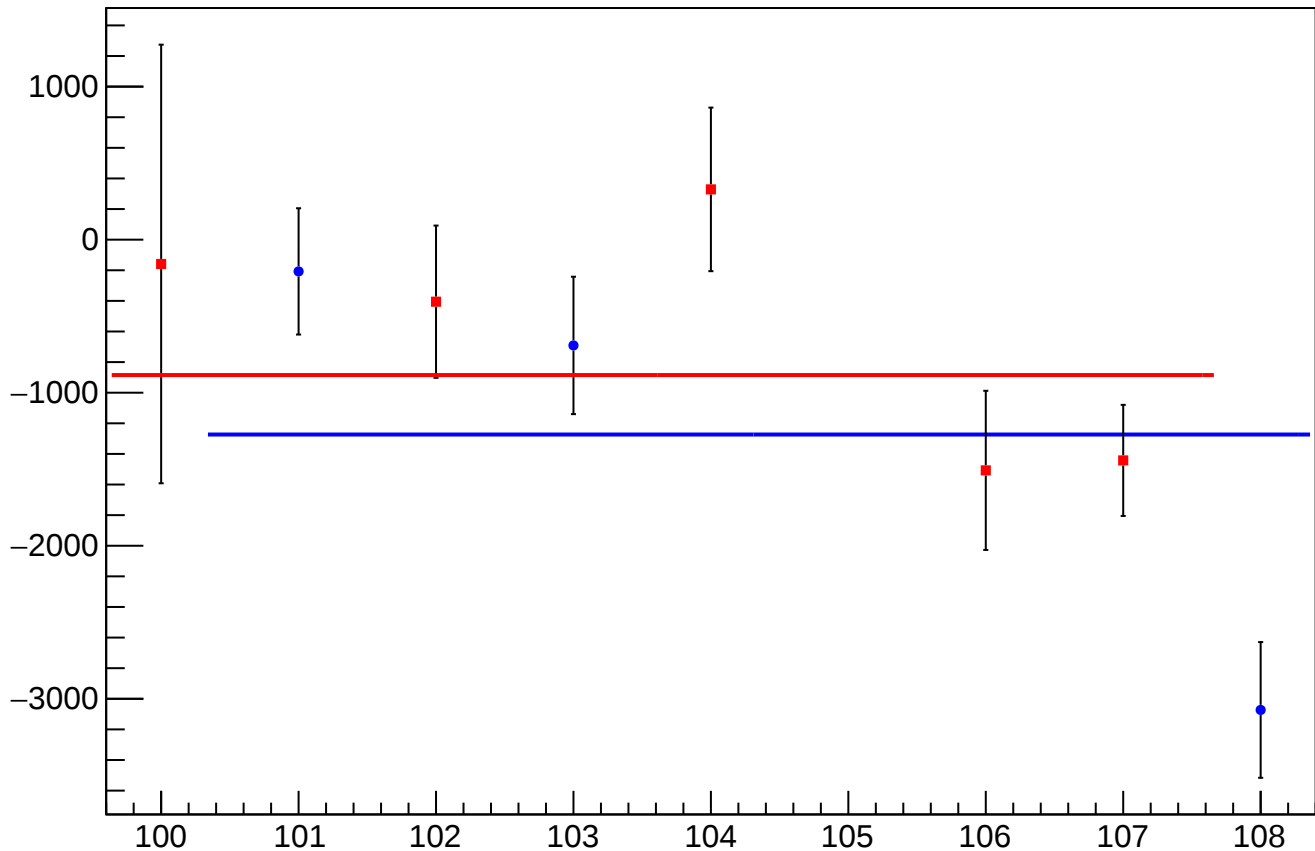
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 271.818 $\pm$ 0.109  $\chi^2$ /NDF: 221571.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i07WS\_mean vs Slug



Right In: -1273.228 $\pm$ 250.625  $\chi^2$ /NDF: 24.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -884.614 $\pm$ 227.510  $\chi^2$ /NDF: 10.1/4

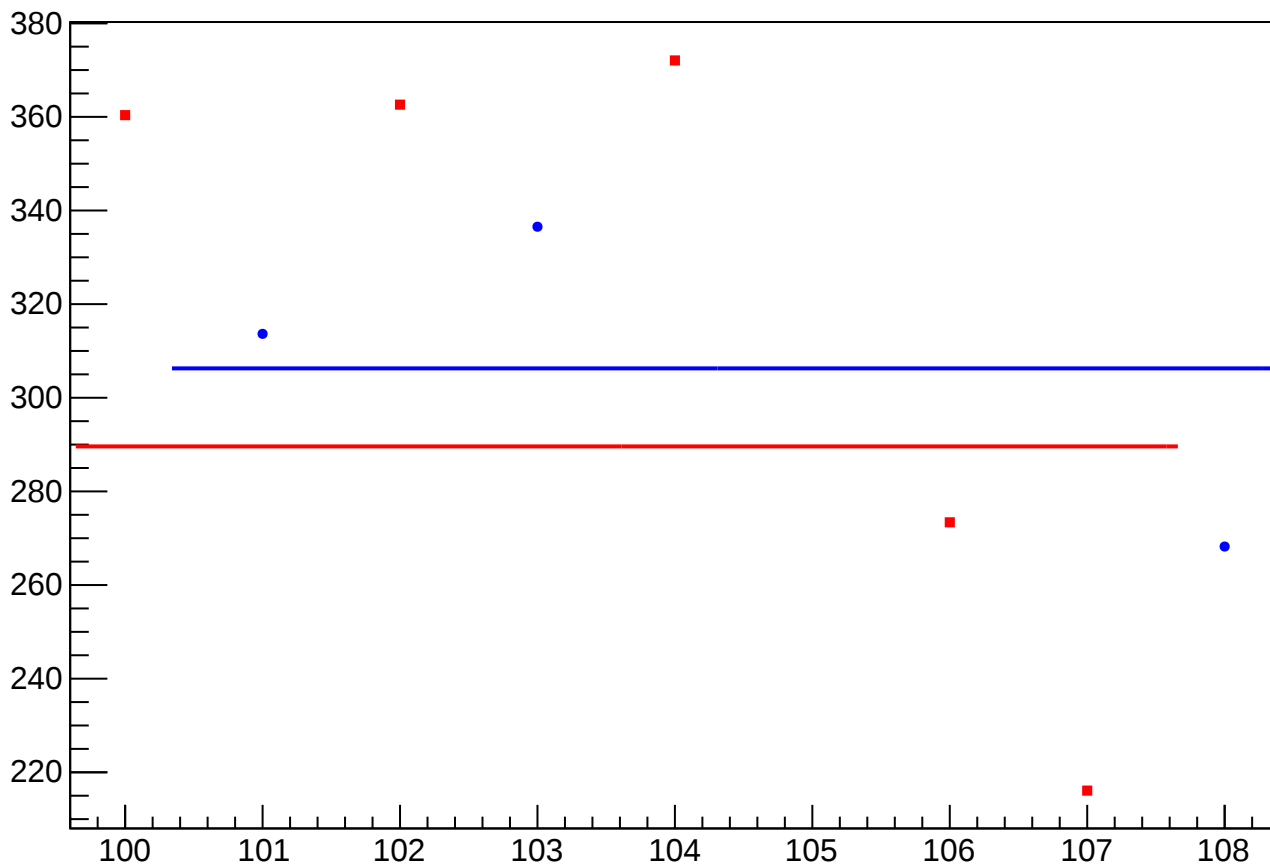
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1060.178 $\pm$ 168.454  $\chi^2$ /NDF: 36.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i07WS\_rms vs Slug



Right In: 306.278+/-0.177  $\chi^2/\text{NDF}$ : 24449.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 289.612+/-0.161  $\chi^2/\text{NDF}$ : 179546.6/4

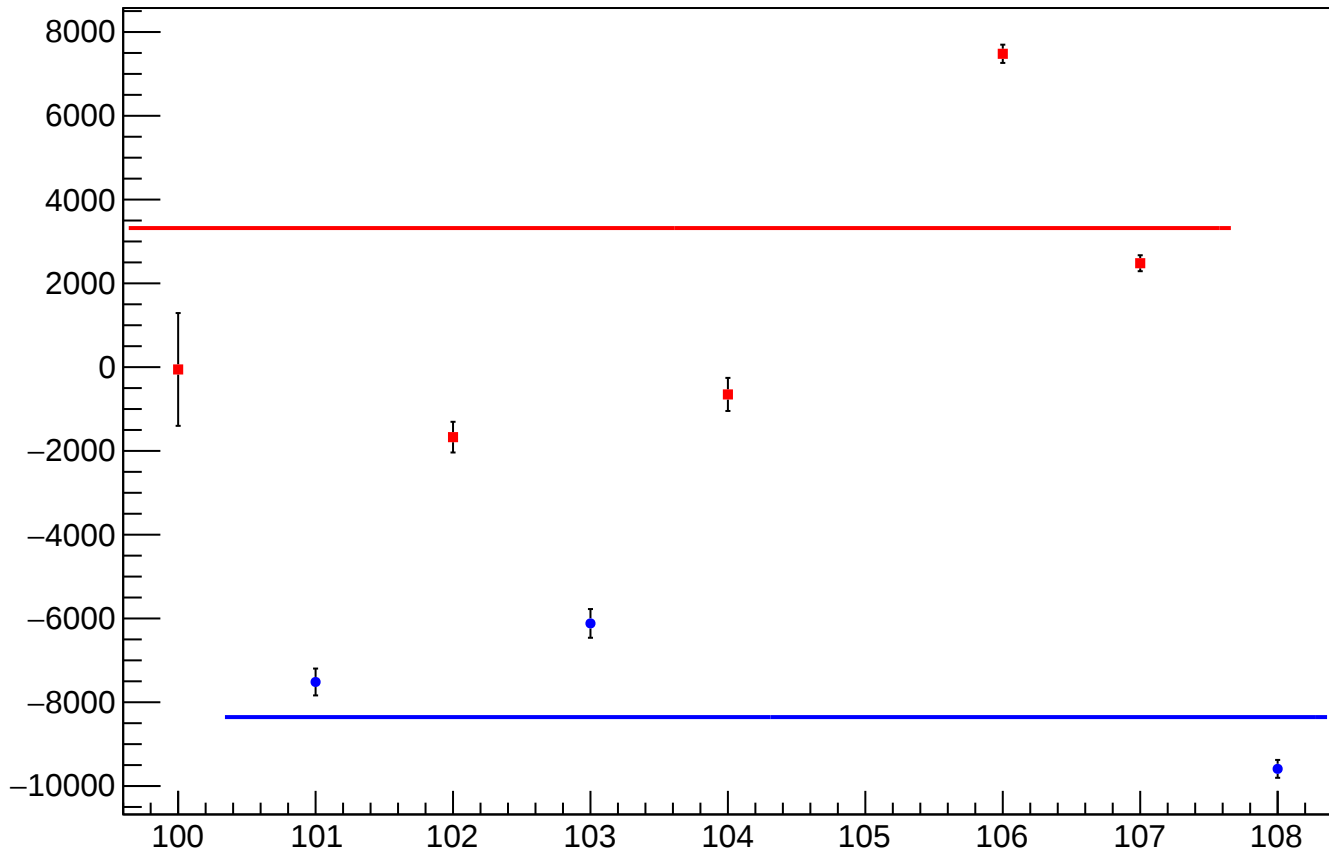
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 297.141+/-0.119  $\chi^2/\text{NDF}$ : 208844.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i02WS\_mean vs Slug



Right In: -8354.329+/-157.678  $\chi^2/\text{NDF}$ : 83.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3320.022+/-125.954  $\chi^2/\text{NDF}$ : 677.2/4

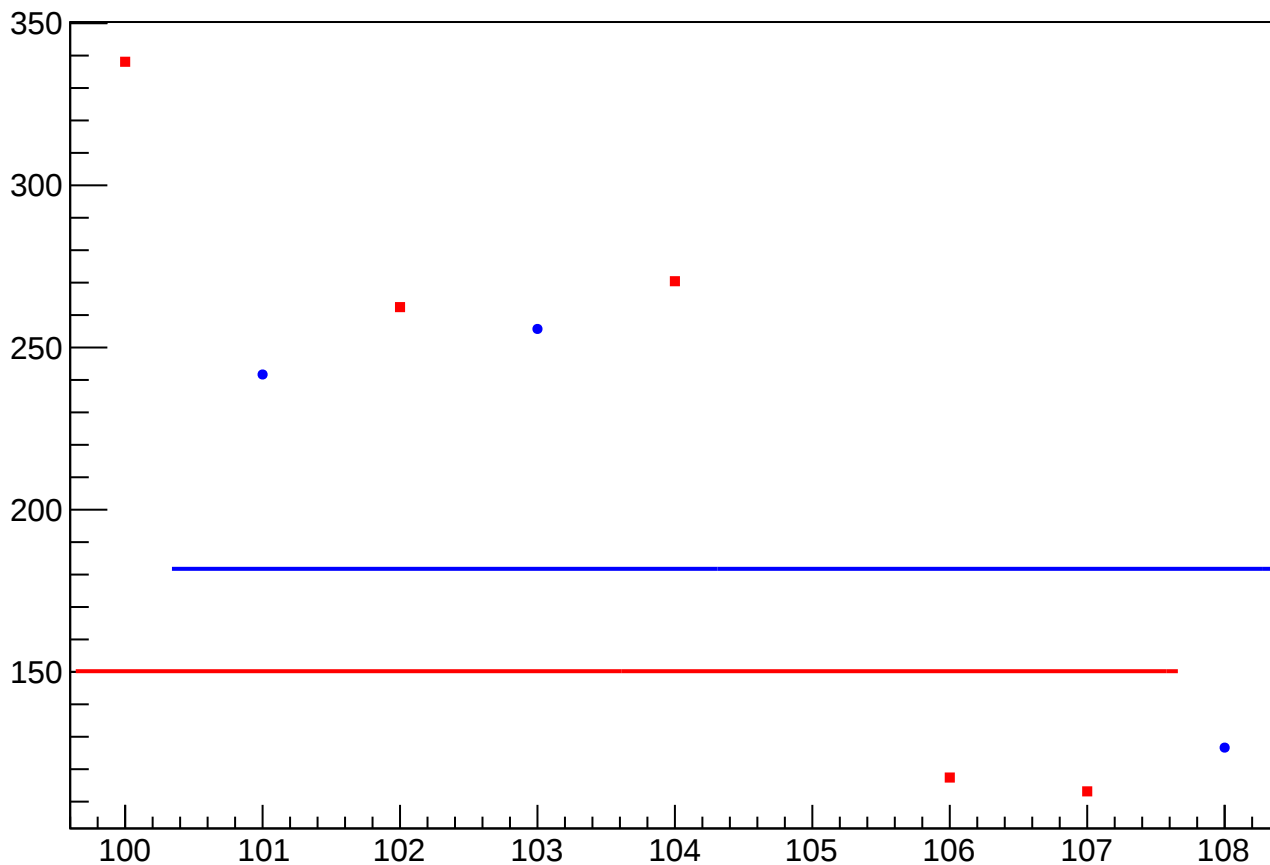
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1227.520+/-98.411  $\chi^2/\text{NDF}$ : 4106.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i02WS\_rms vs Slug



Right In: 181.771 $\pm$ 0.111  $\chi^2$ /NDF: 296481.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 150.211 $\pm$ 0.089  $\chi^2$ /NDF: 533026.7/4

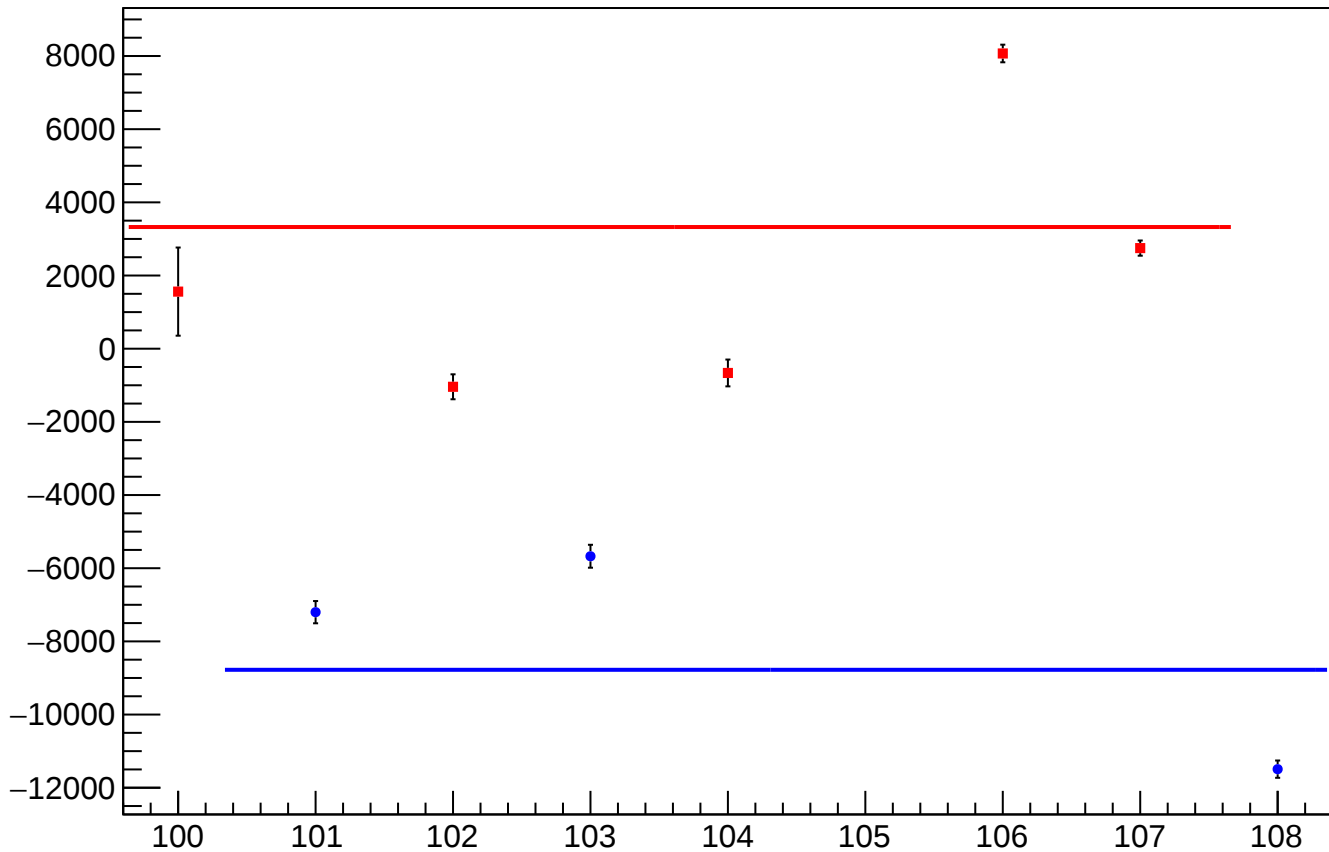
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 162.505 $\pm$ 0.070  $\chi^2$ /NDF: 878420.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm2i01WS\_mean vs Slug



Right In: -8776.695+/-160.287  $\chi^2/\text{NDF}$ : 257.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3325.654+/-132.246  $\chi^2/\text{NDF}$ : 680.4/4

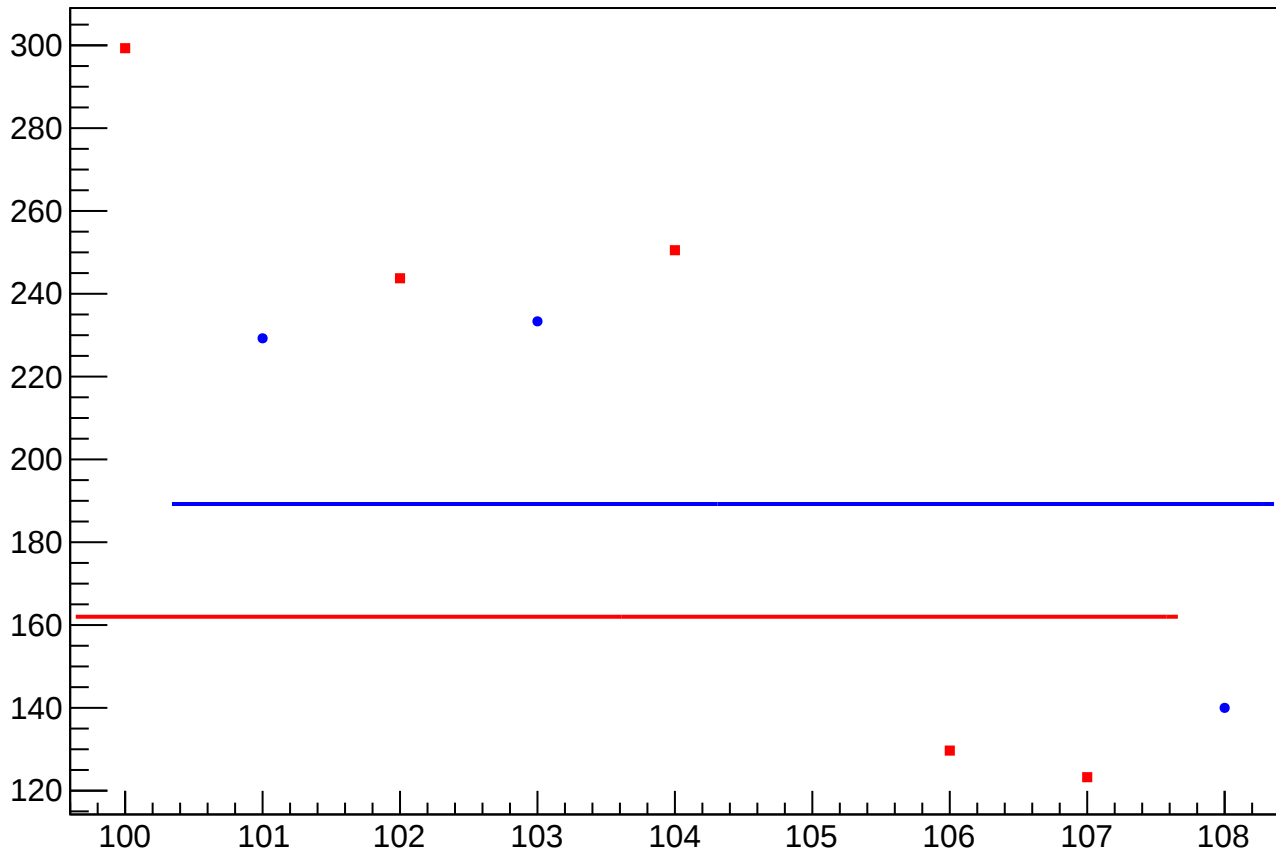
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1576.015+/-102.008  $\chi^2/\text{NDF}$ : 4329.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm2i01WS\_rms vs Slug



Right In: 189.231 $\pm$ 0.113  $\chi^2$ /NDF: 161154.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 162.007 $\pm$ 0.094  $\chi^2$ /NDF: 363237.8/4

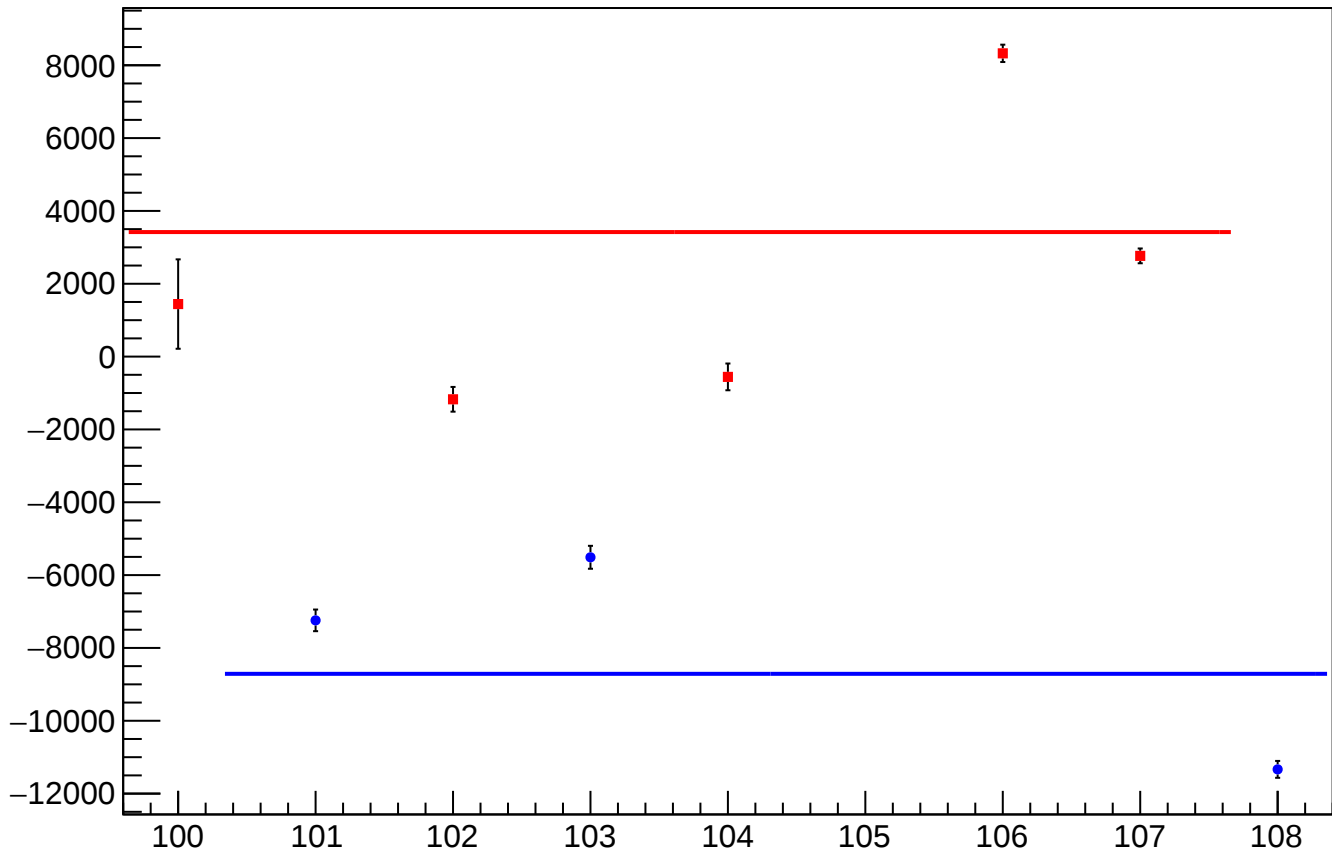
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 173.033 $\pm$ 0.072  $\chi^2$ /NDF: 558719.2/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm2i02WS\_mean vs Slug



Right In: -8710.988 $\pm$ 158.001  $\chi^2$ /NDF: 256.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 3419.522 $\pm$ 130.591  $\chi^2$ /NDF: 737.7/4

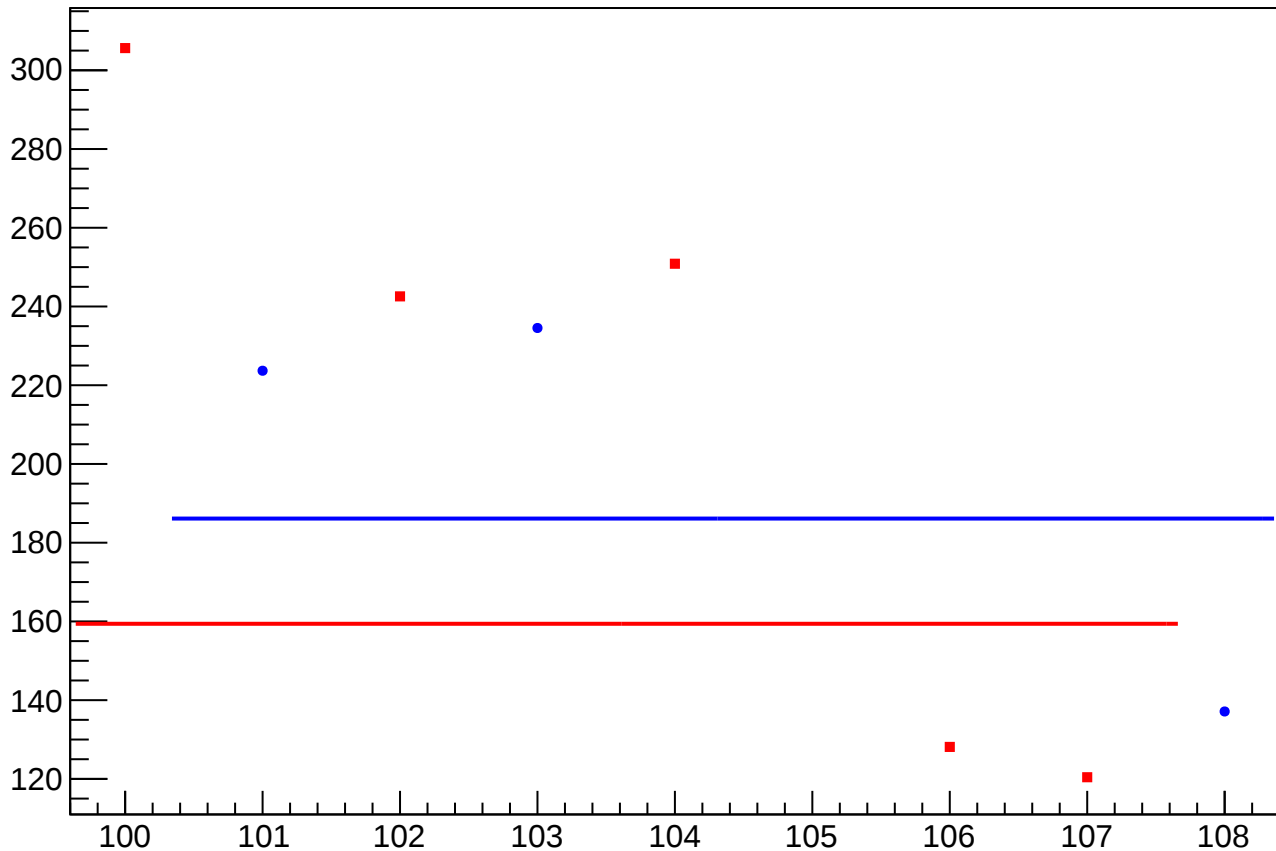
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1503.889 $\pm$ 100.659  $\chi^2$ /NDF: 4495.8/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm2i02WS\_rms vs Slug



Right In: 186.131+/-0.112  $\chi^2/\text{NDF}$ : 168763.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 159.404+/-0.092  $\chi^2/\text{NDF}$ : 380655.6/4

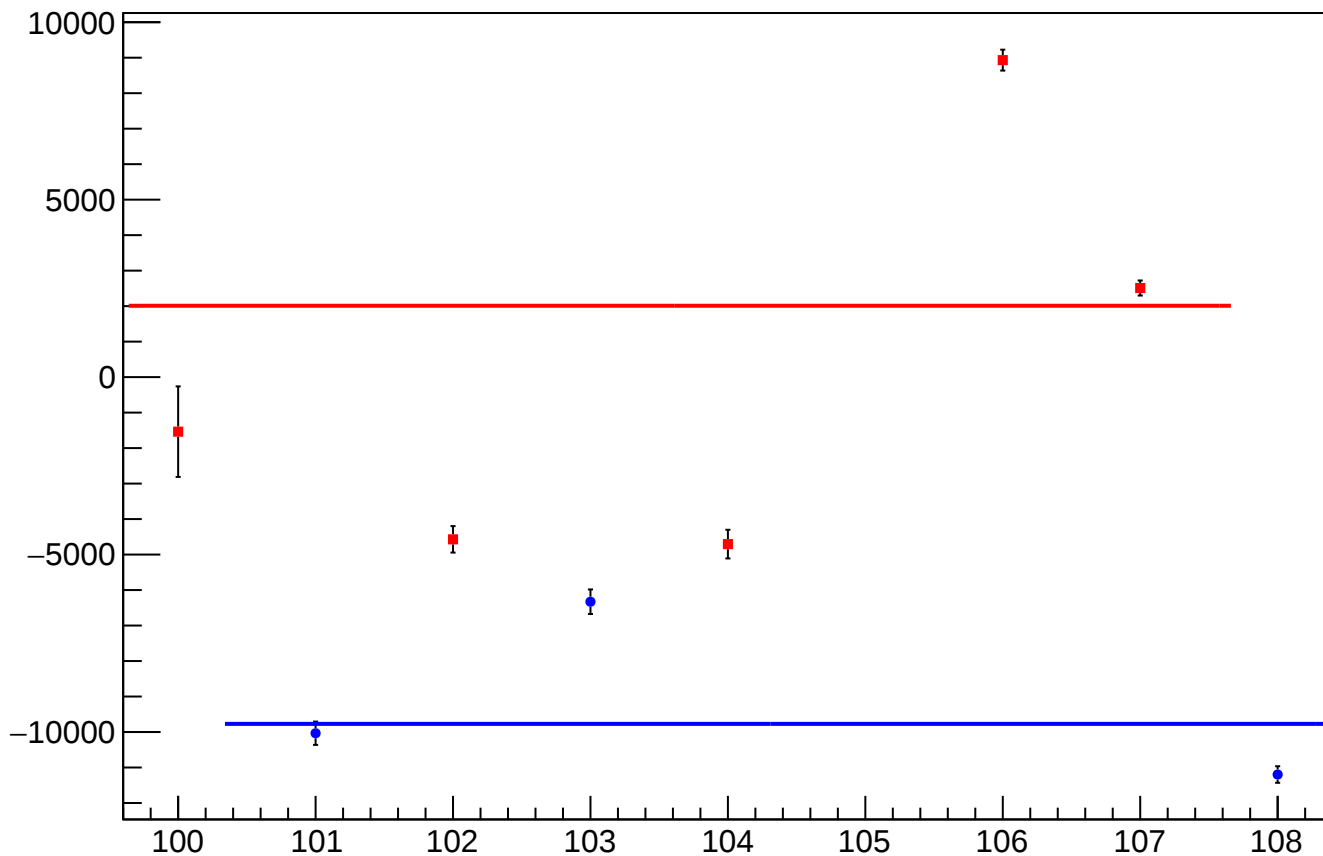
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 170.251+/-0.071  $\chi^2/\text{NDF}$ : 583420.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01WS\_mean vs Slug



Right In: -9770.313+/-166.667  $\chi^2/\text{NDF}$ : 136.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2010.645+/-144.788  $\chi^2/\text{NDF}$ : 1153.0/4

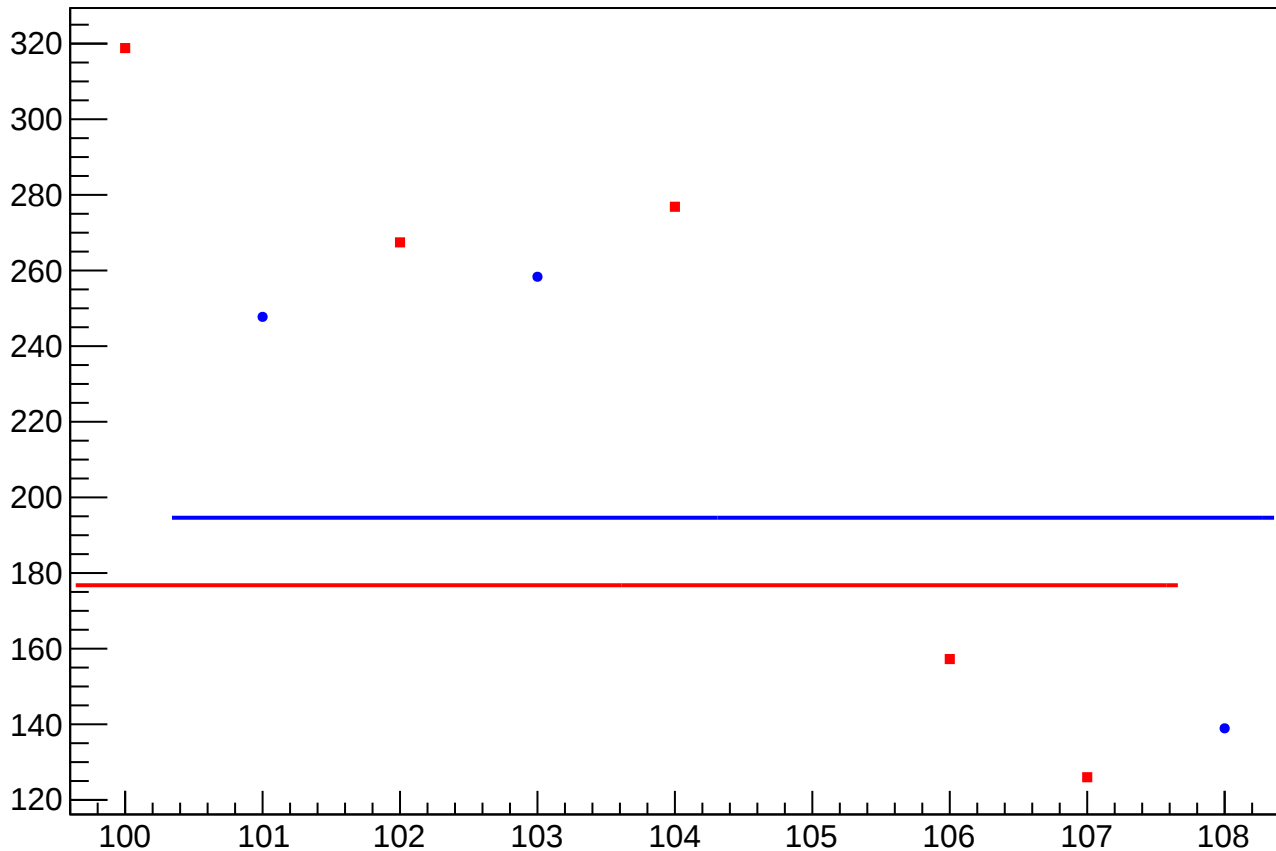
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3056.308+/-109.303  $\chi^2/\text{NDF}$ : 4137.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01WS\_rms vs Slug



Right In: 194.623+/-0.118  $\chi^2/\text{NDF}$ : 234108.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 176.771+/-0.102  $\chi^2/\text{NDF}$ : 389538.2/4

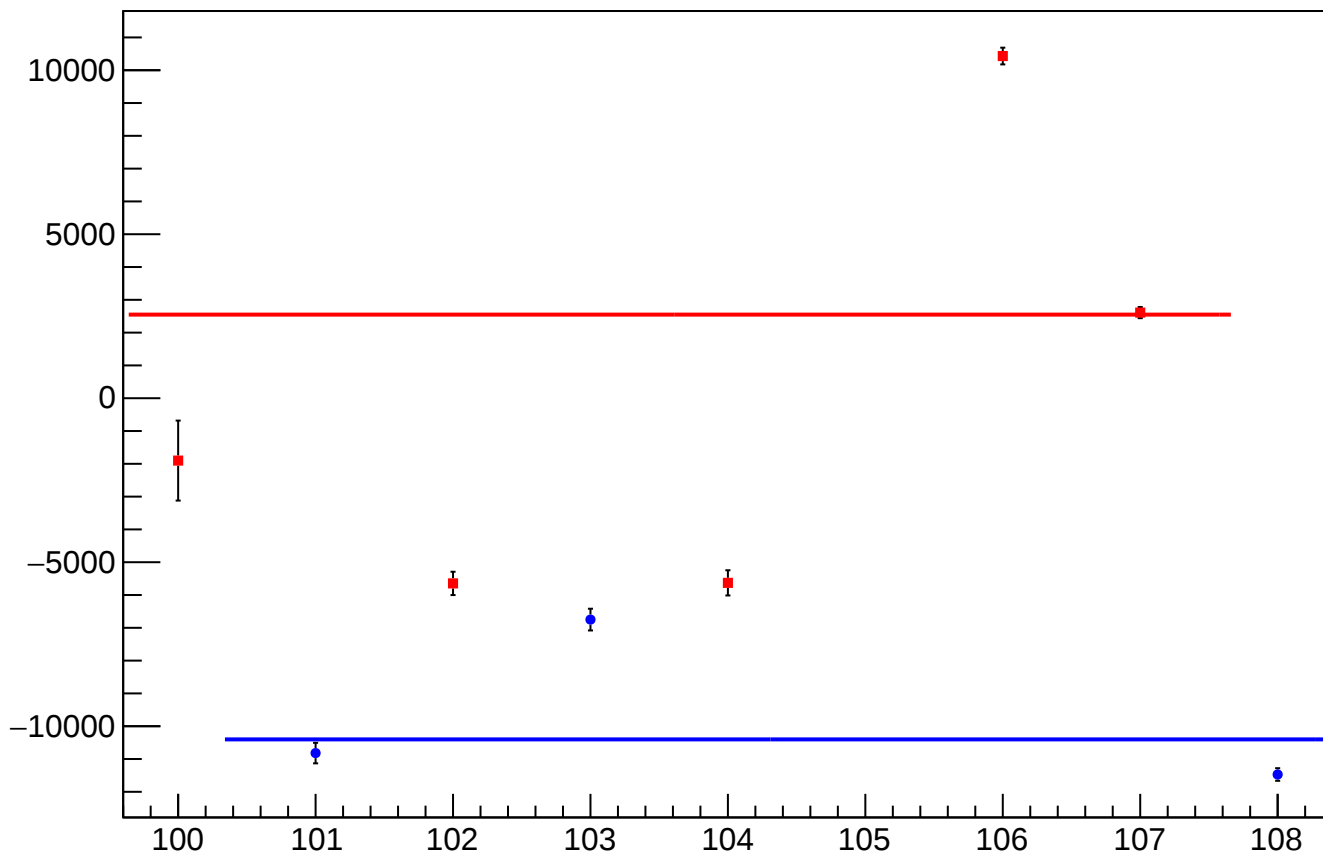
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 184.449+/-0.077  $\chi^2/\text{NDF}$ : 636722.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01aWS\_mean vs Slug



Right In:  $-10401.891 \pm 146.782$   $\chi^2/\text{NDF}$ : 154.4/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $2549.024 \pm 123.556$   $\chi^2/\text{NDF}$ : 1953.4/4

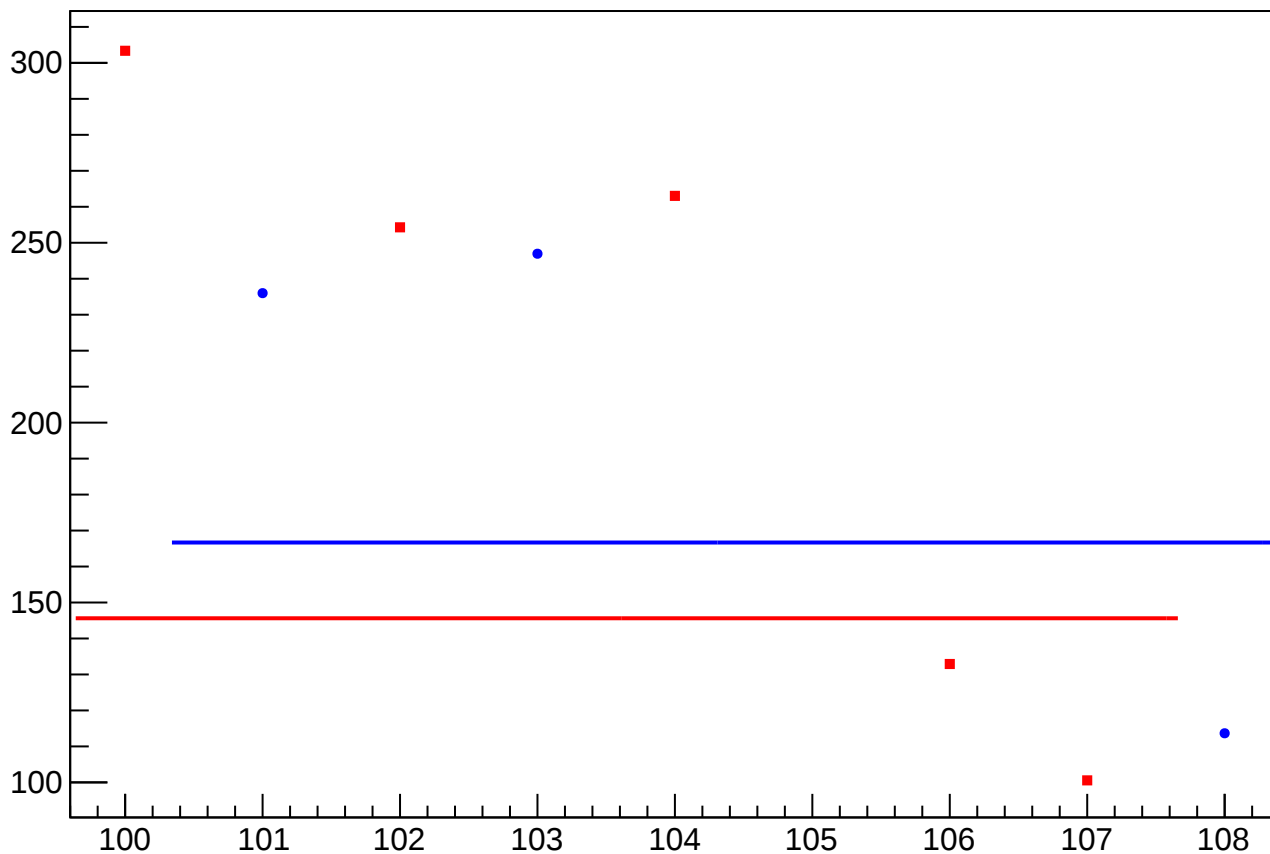
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-2821.915 \pm 94.526$   $\chi^2/\text{NDF}$ : 6664.1/7

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01aWS\_rms vs Slug



Right In: 166.677 $\pm$ 0.104  $\chi^2$ /NDF: 367790.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 145.619 $\pm$ 0.087  $\chi^2$ /NDF: 553415.7/4

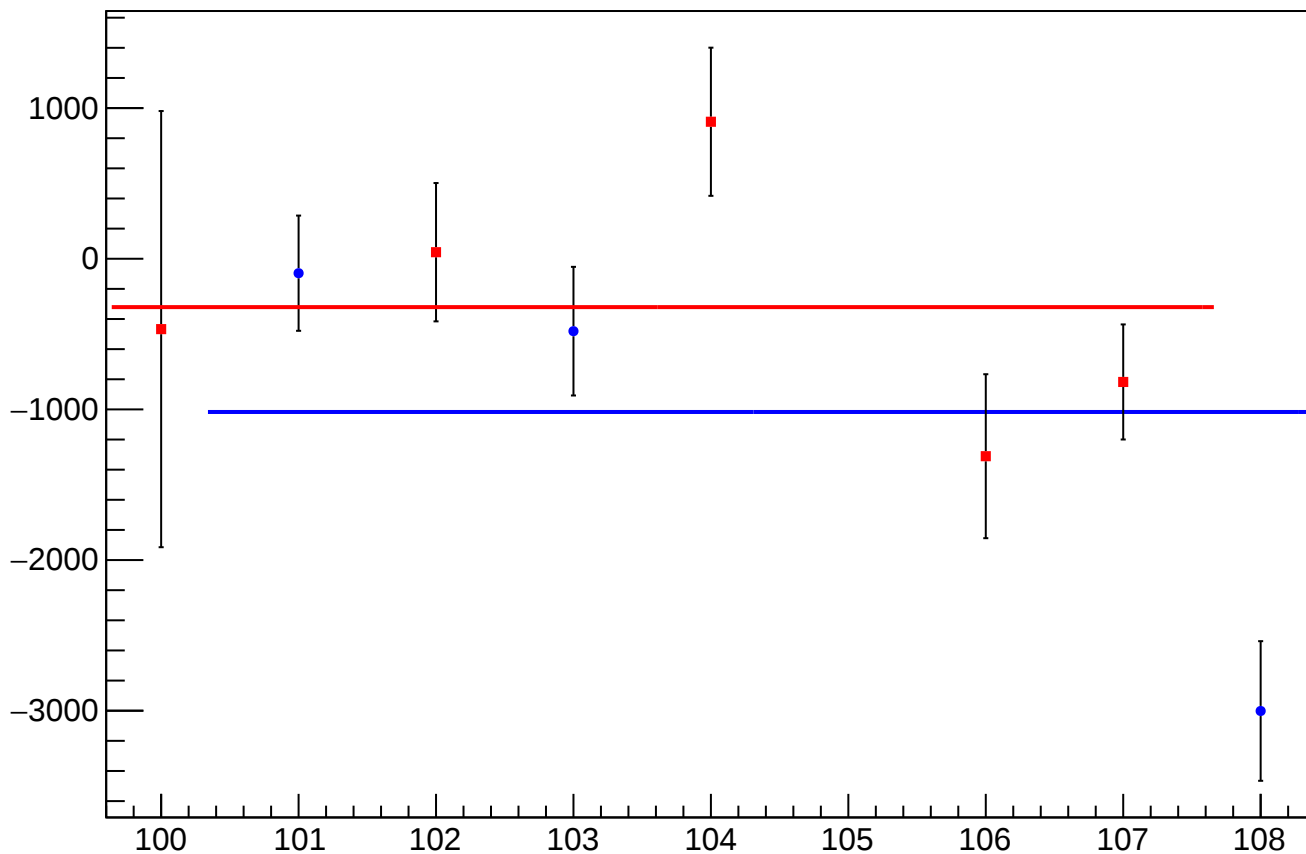
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 154.352 $\pm$ 0.067  $\chi^2$ /NDF: 945297.6/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l01WS\_mean vs Slug



Right In: -1017.087 $\pm$ 242.677  $\chi^2$ /NDF: 25.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -321.038 $\pm$ 225.929  $\chi^2$ /NDF: 11.9/4

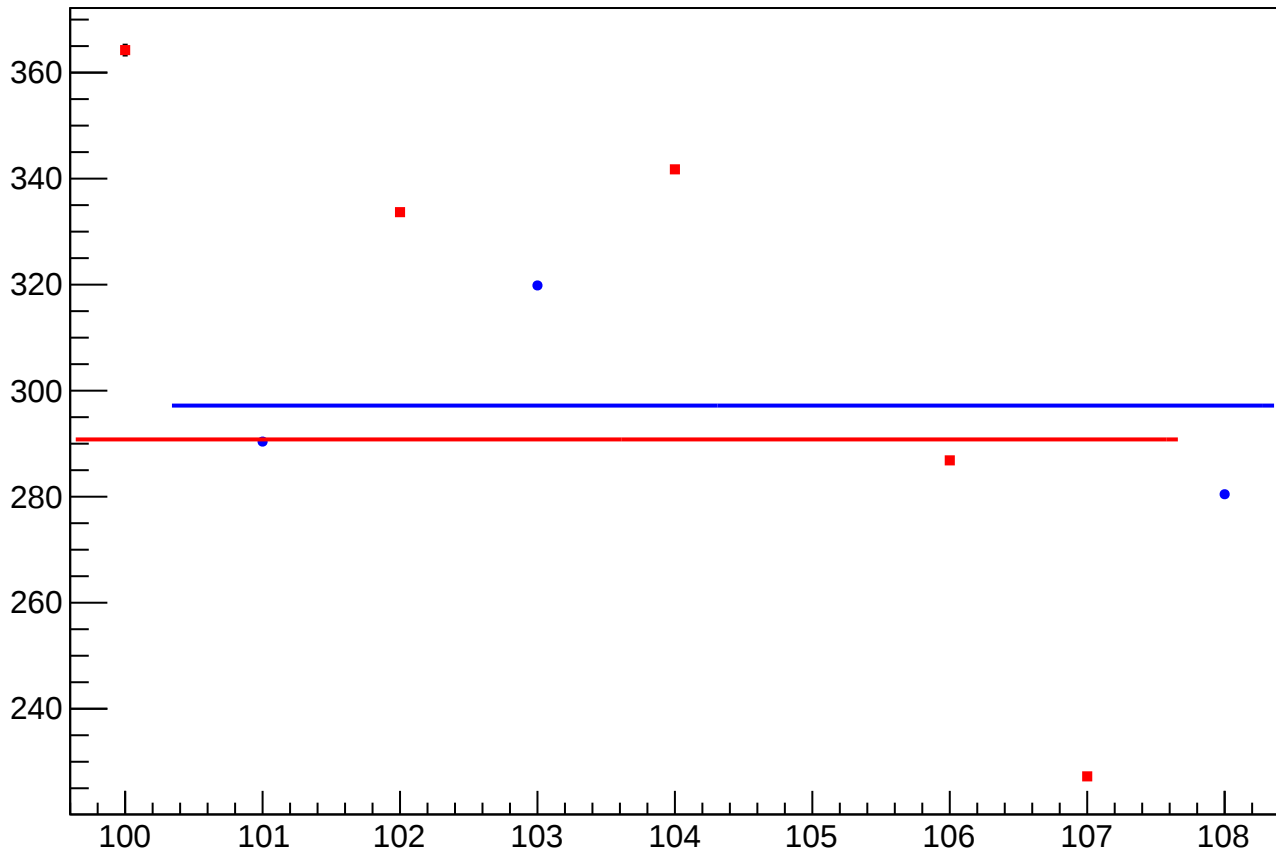
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -644.217 $\pm$ 165.360  $\chi^2$ /NDF: 42.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l01WS\_rms vs Slug



Right In: 297.187 $\pm$ 0.172  $\chi^2$ /NDF: 8869.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 290.803 $\pm$ 0.160  $\chi^2$ /NDF: 99563.4/4

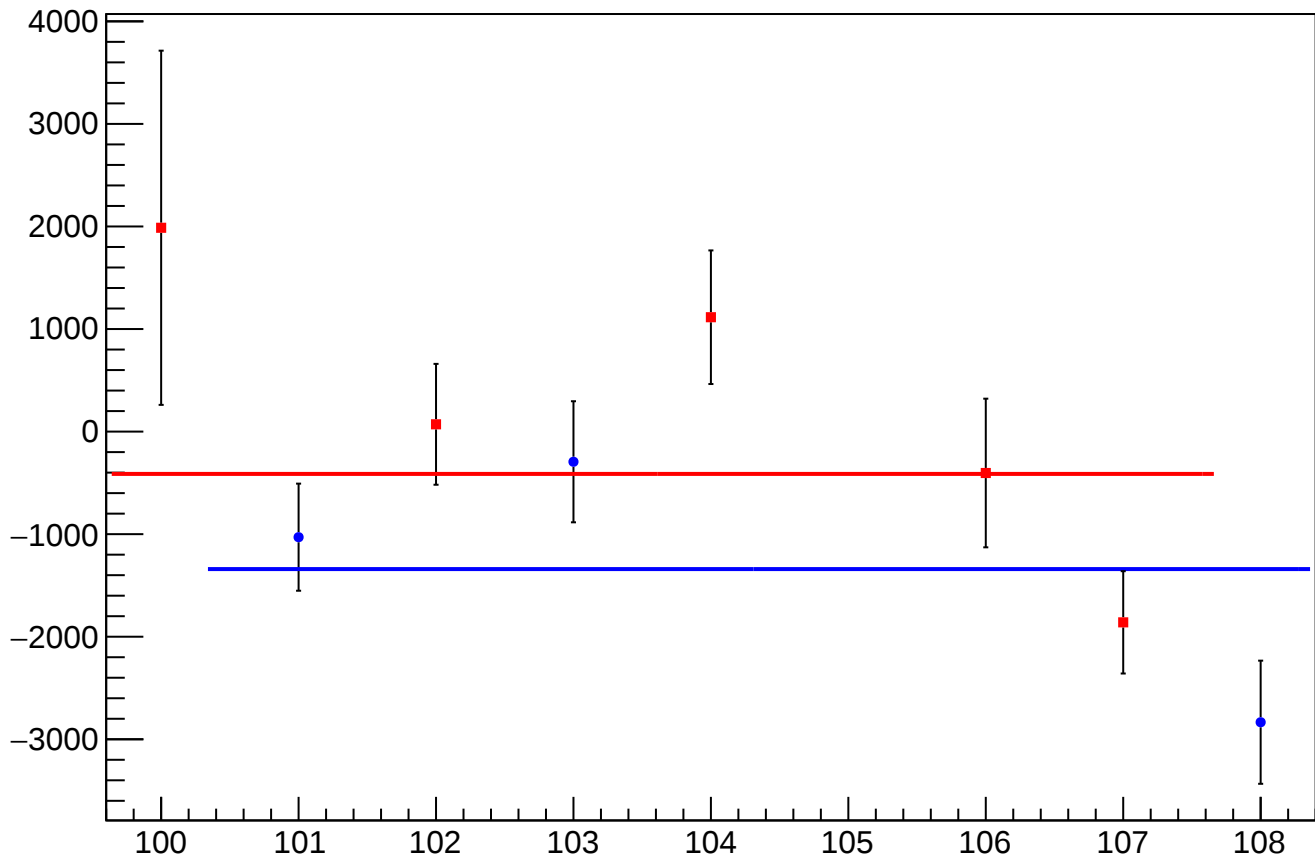
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 293.767 $\pm$ 0.117  $\chi^2$ /NDF: 109174.5/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l02WS\_mean vs Slug



Right In: -1340.499 $\pm$ 327.693  $\chi^2$ /NDF: 9.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -412.631 $\pm$ 294.923  $\chi^2$ /NDF: 16.5/4

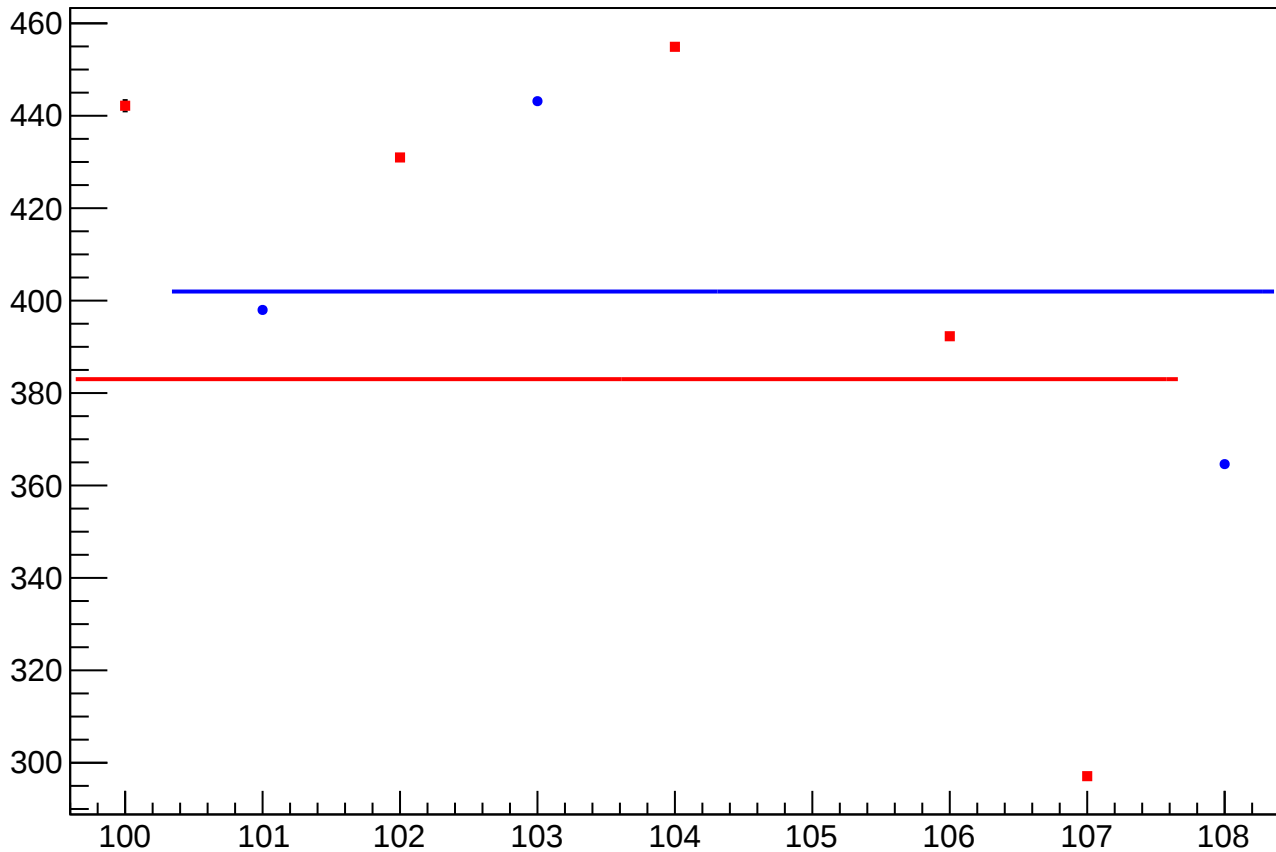
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -827.863 $\pm$ 219.215  $\chi^2$ /NDF: 30.6/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l02WS\_rms vs Slug



Right In: 401.968 $\pm$ 0.232  $\chi^2$ /NDF: 17594.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 383.007 $\pm$ 0.209  $\chi^2$ /NDF: 99640.3/4

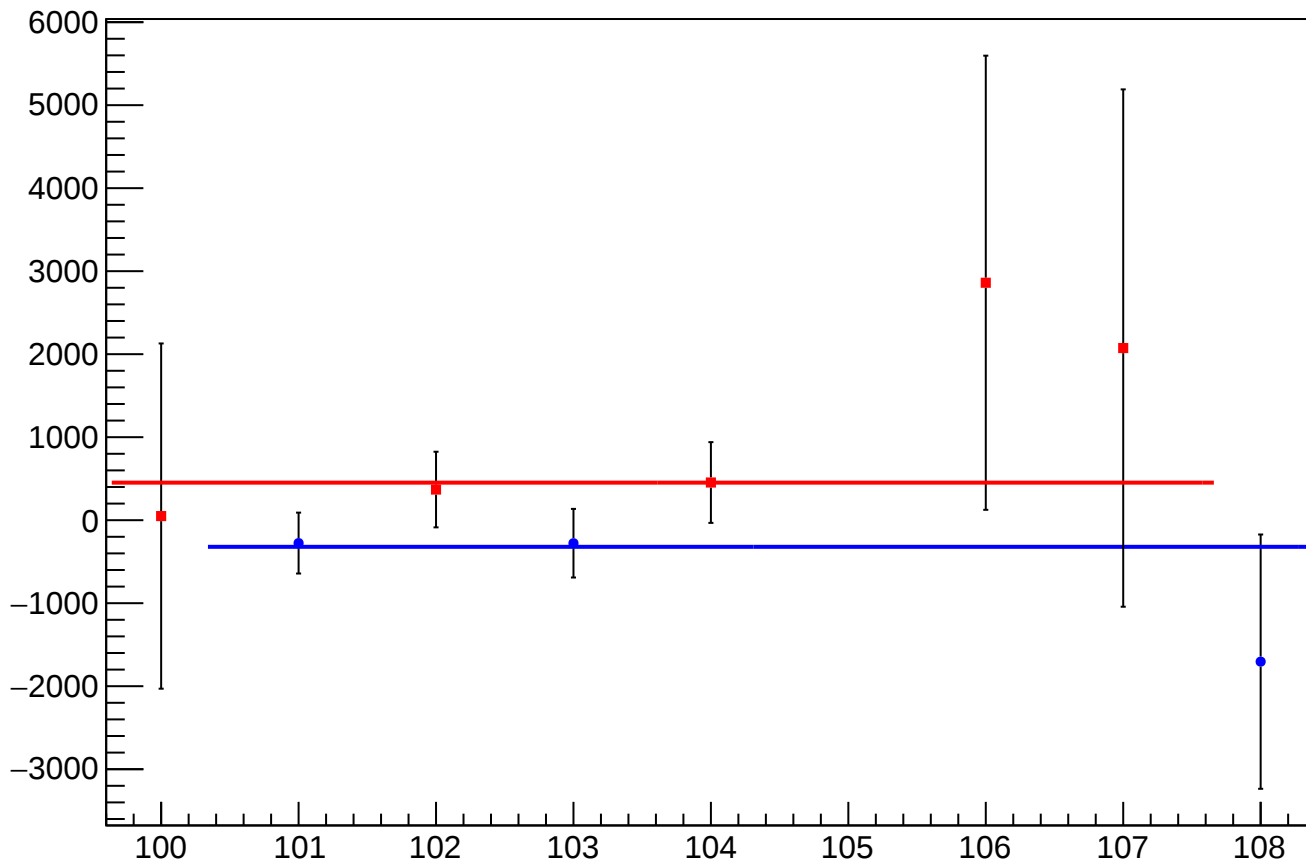
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 391.492 $\pm$ 0.155  $\chi^2$ /NDF: 120934.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l03WS\_mean vs Slug



Right In: -320.820+/-270.059  $\chi^2/\text{NDF}$ : 0.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 452.458+/-324.216  $\chi^2/\text{NDF}$ : 1.1/4

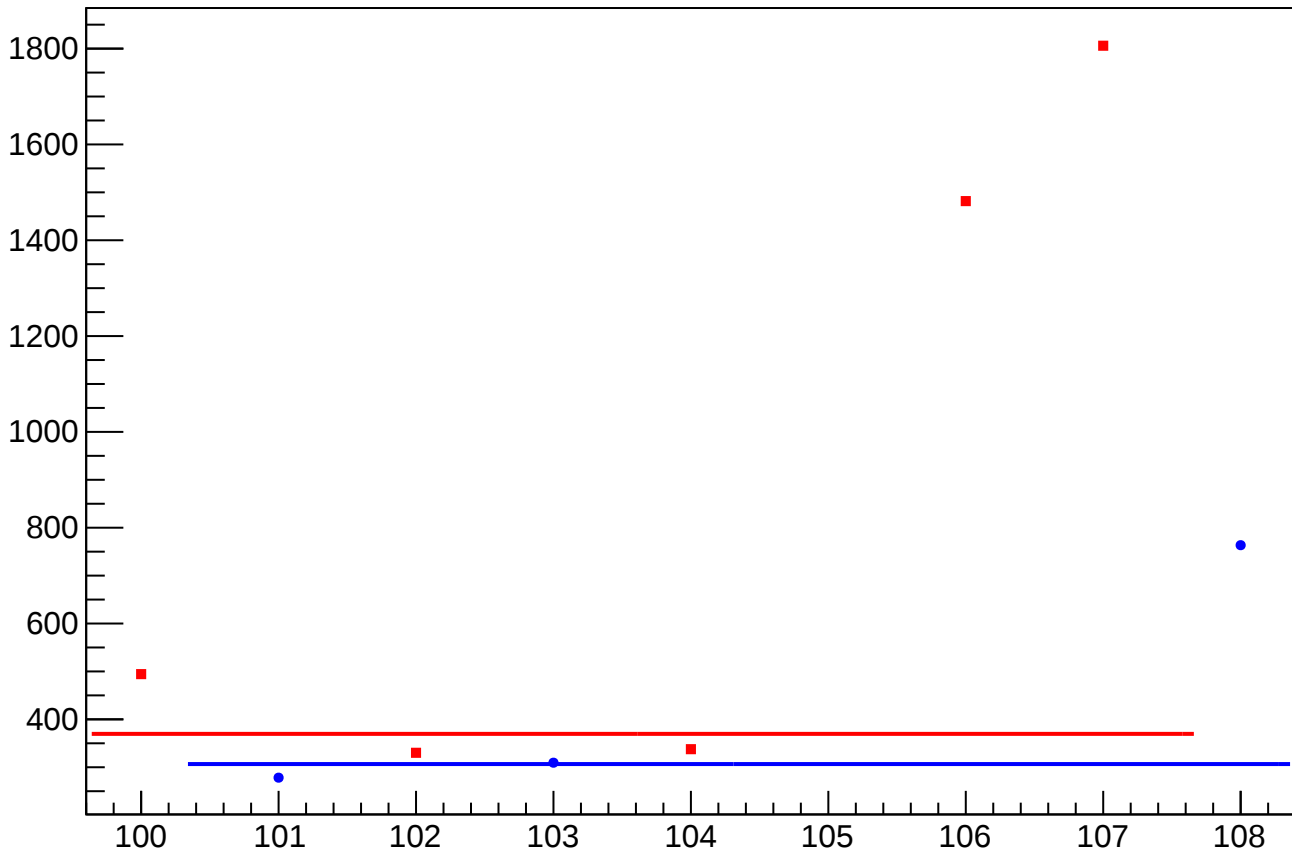
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.071+/-207.503  $\chi^2/\text{NDF}$ : 5.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l03WS\_rms vs Slug



Right In: 306.663+/-0.191  $\chi^2/\text{NDF}$ : 189997.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 369.672+/-0.229  $\chi^2/\text{NDF}$ : 786209.4/4

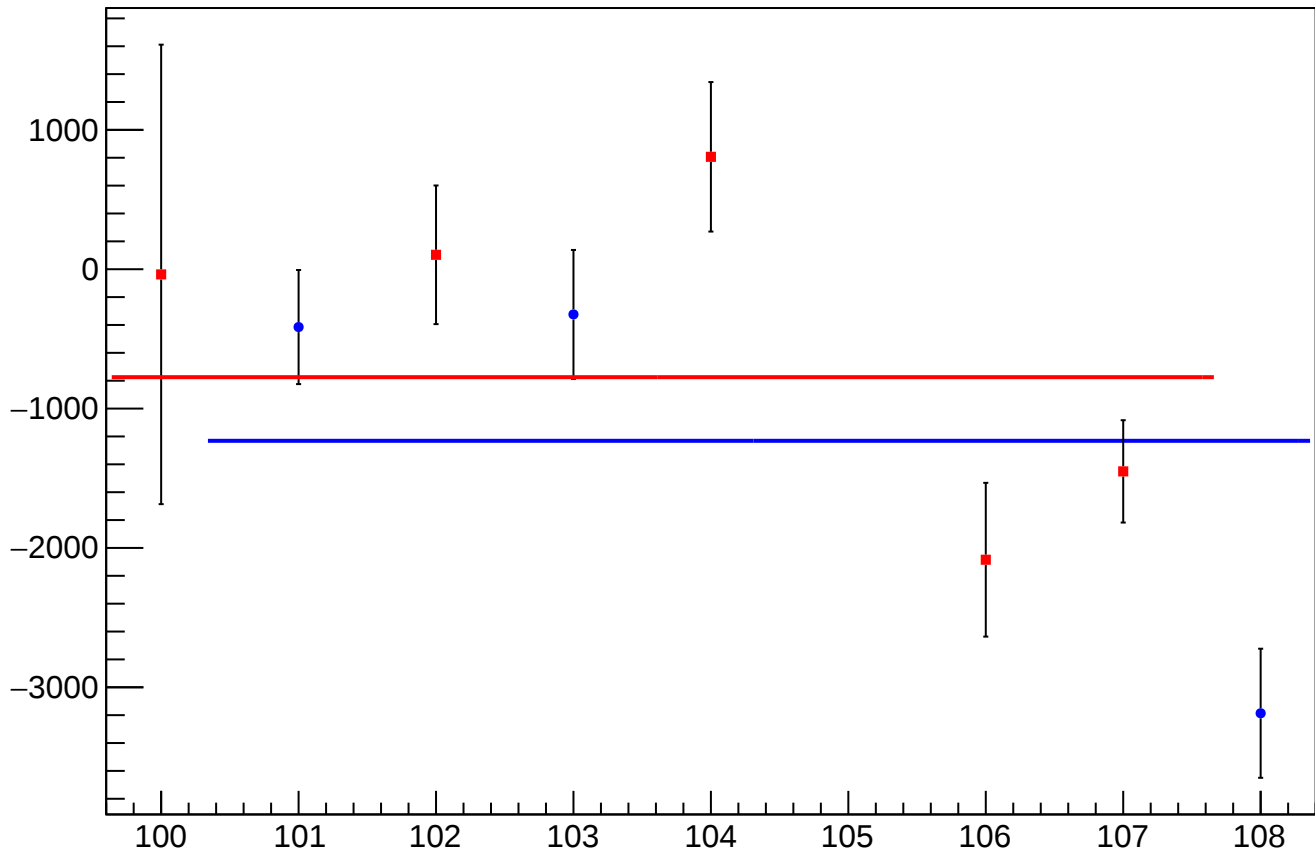
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 332.472+/-0.147  $\chi^2/\text{NDF}$ : 1020802.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l04WS\_mean vs Slug



Right In:  $-1231.291 \pm 255.612$   $\chi^2/\text{NDF}$ : 25.6/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-774.649 \pm 231.947$   $\chi^2/\text{NDF}$ : 21.0/4

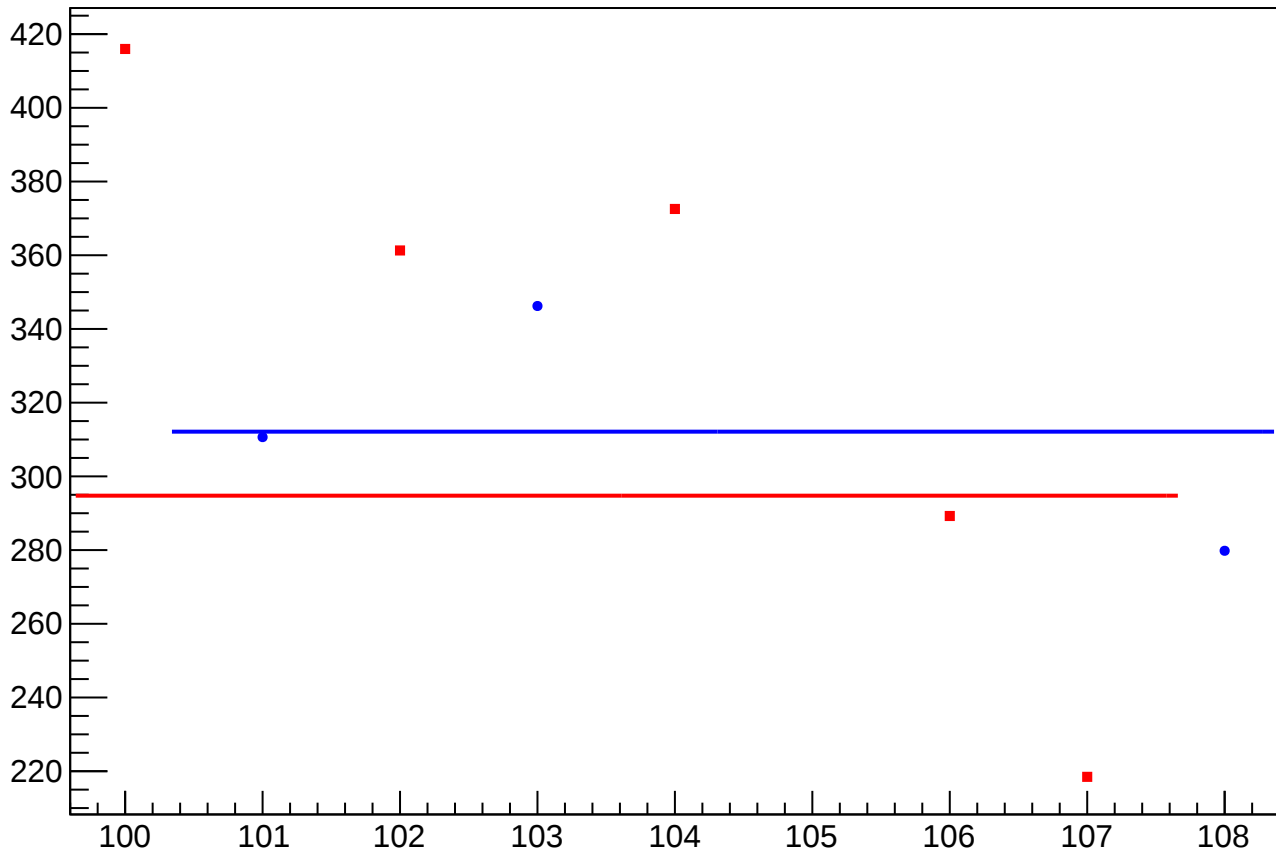
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-980.858 \pm 171.770$   $\chi^2/\text{NDF}$ : 48.4/7

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l04WS\_rms vs Slug



Right In: 312.132 $\pm$ 0.181  $\chi^2$ /NDF: 20642.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 294.762 $\pm$ 0.164  $\chi^2$ /NDF: 175205.3/4

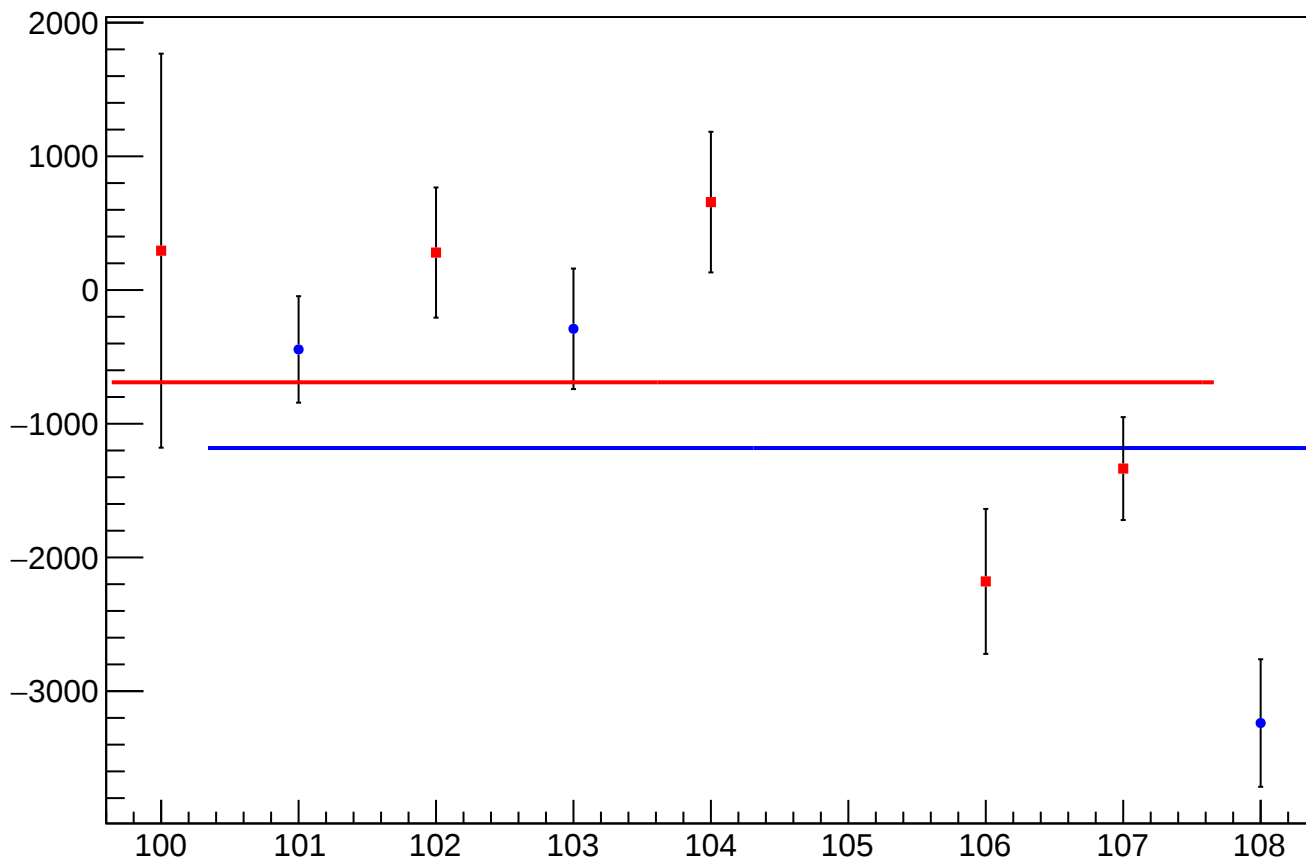
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 302.606 $\pm$ 0.121  $\chi^2$ /NDF: 200912.9/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l05WS\_mean vs Slug



Right In: -1181.556 $\pm$ 252.958  $\chi^2$ /NDF: 25.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -690.014 $\pm$ 232.829  $\chi^2$ /NDF: 21.3/4

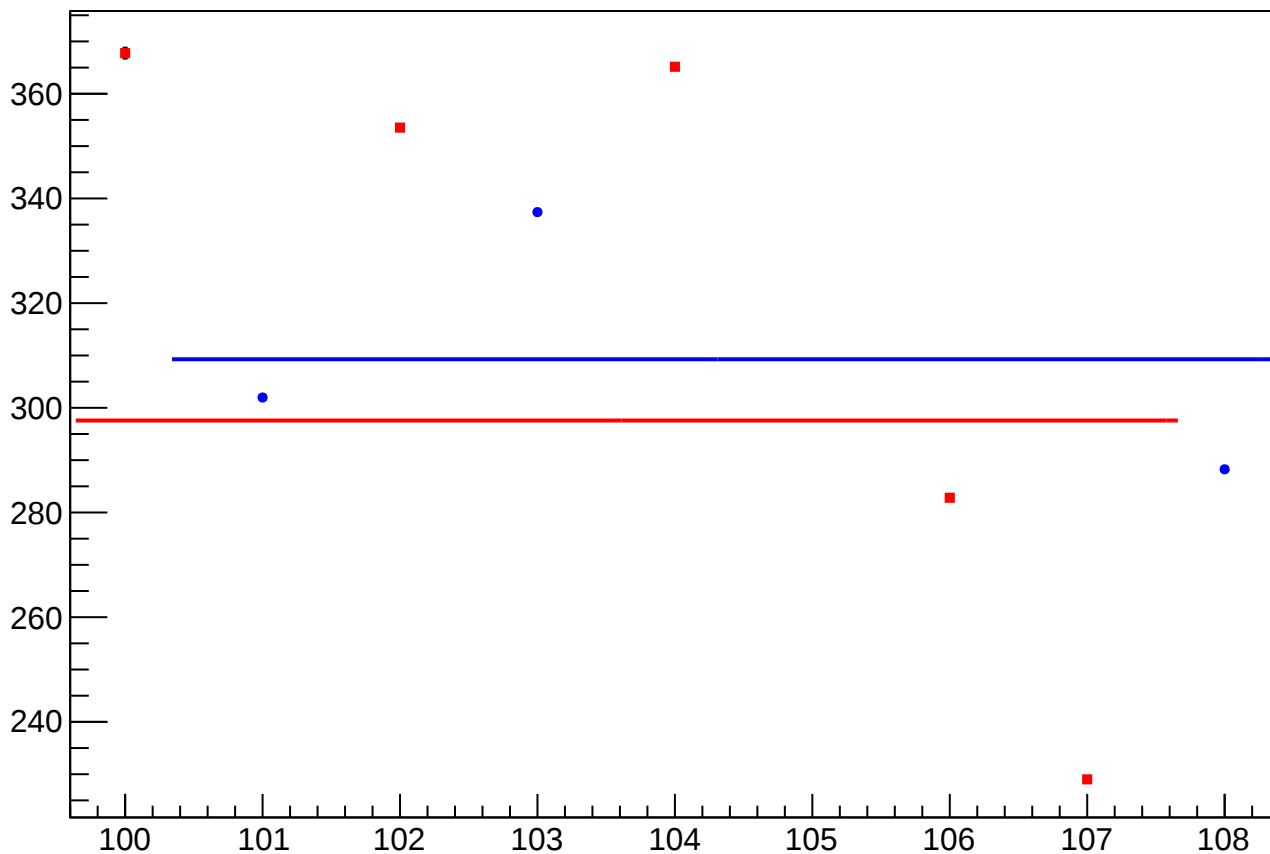
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -915.453 $\pm$ 171.310  $\chi^2$ /NDF: 49.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l05WS\_rms vs Slug



Right In: 309.273+/-0.179  $\chi^2/\text{NDF}$ : 12345.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 297.573+/-0.165  $\chi^2/\text{NDF}$ : 128910.0/4

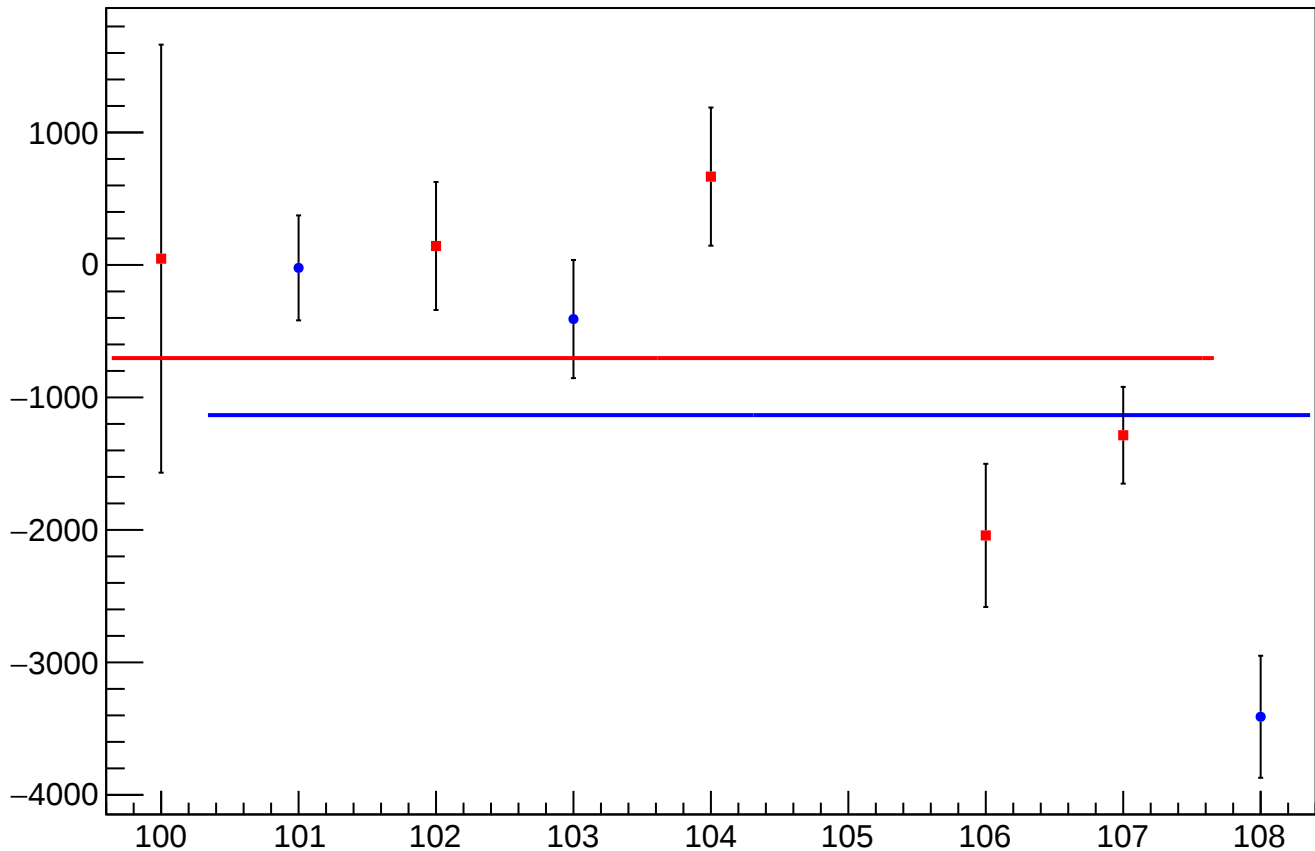
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 302.939+/-0.121  $\chi^2/\text{NDF}$ : 143571.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l06WS\_mean vs Slug



Right In: -1133.545 $\pm$ 249.116  $\chi^2$ /NDF: 34.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -703.026 $\pm$ 227.809  $\chi^2$ /NDF: 18.9/4

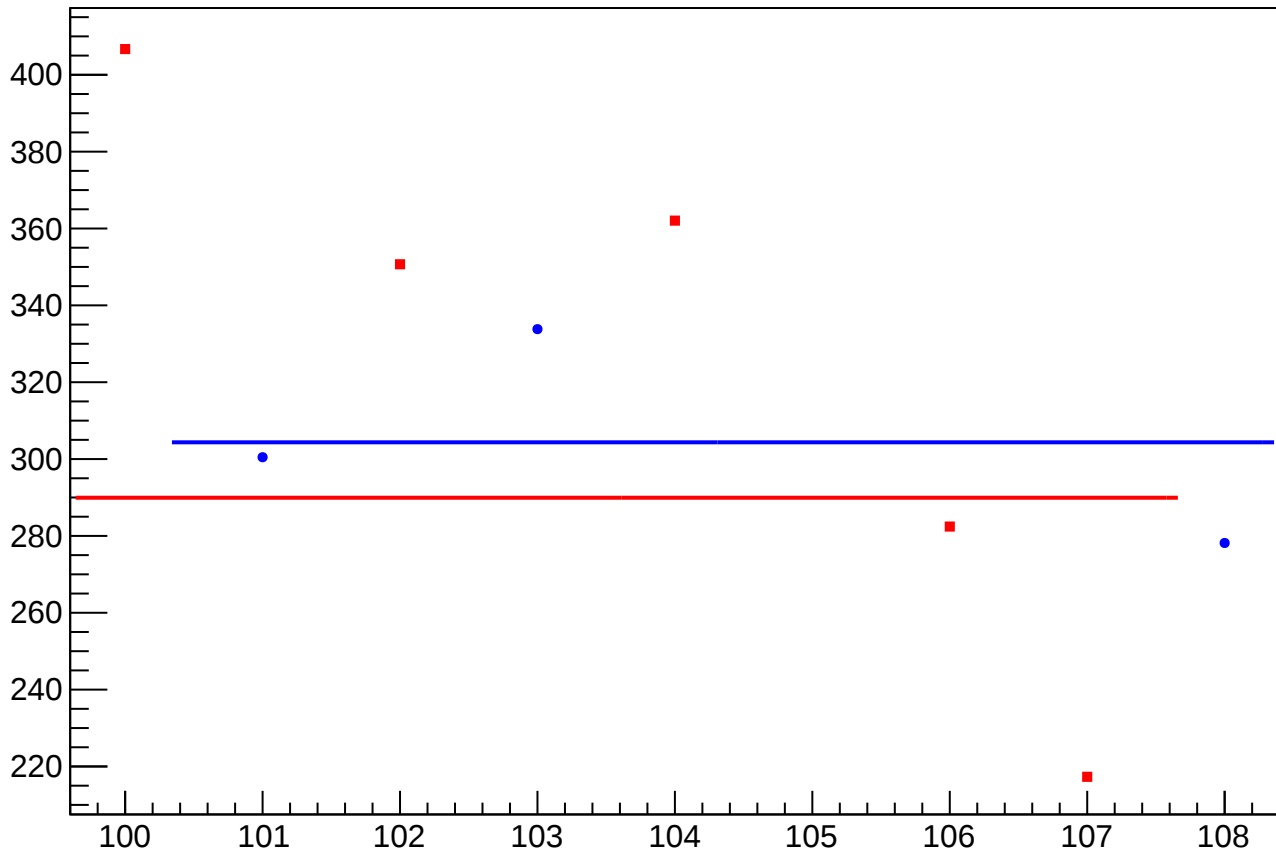
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -899.090 $\pm$ 168.114  $\chi^2$ /NDF: 55.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l06WS\_rms vs Slug



Right In: 304.358 $\pm$ 0.176  $\chi^2$ /NDF: 15384.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 289.938 $\pm$ 0.161  $\chi^2$ /NDF: 159825.1/4

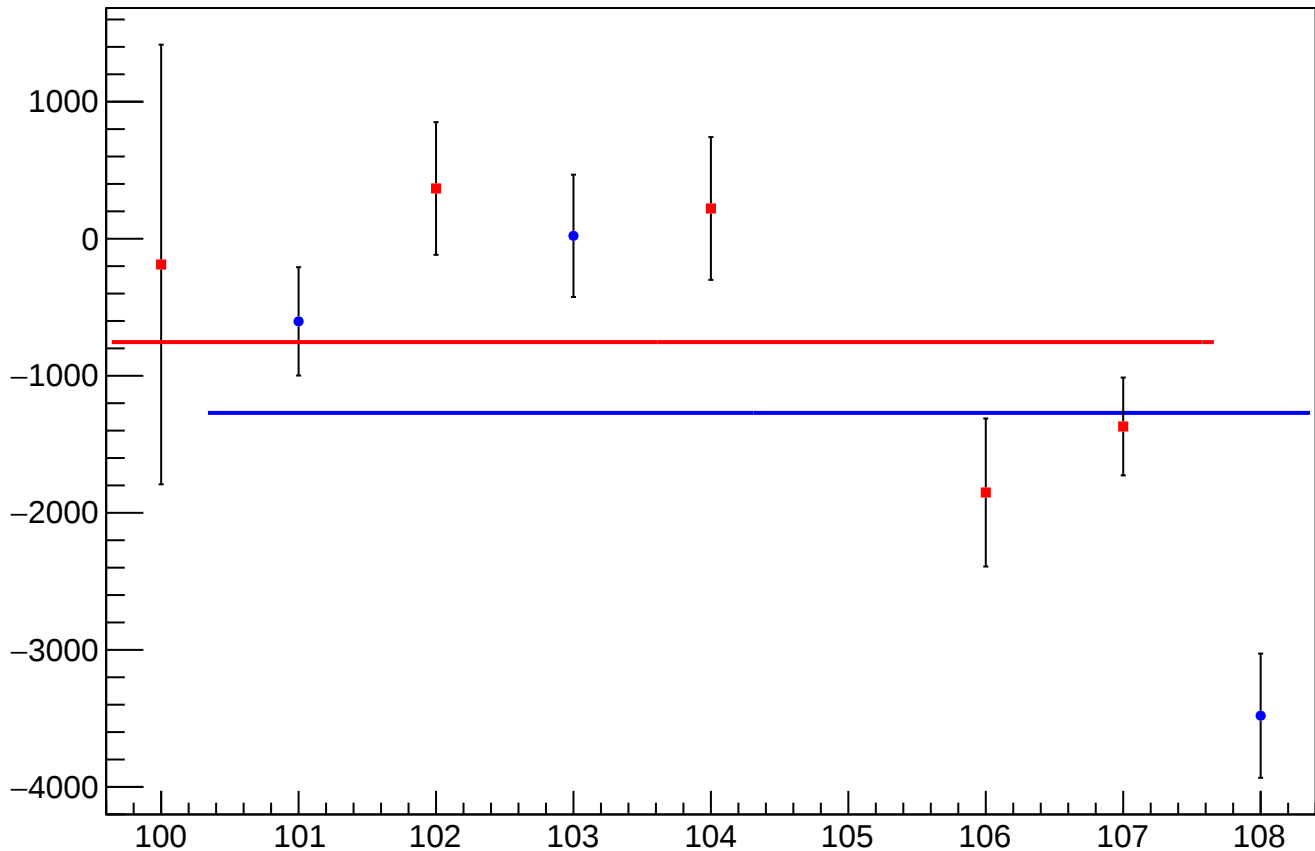
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 296.505 $\pm$ 0.119  $\chi^2$ /NDF: 178858.5/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l07WS\_mean vs Slug



Right In:  $-1270.698 \pm 247.756$   $\chi^2/\text{NDF}$ : 35.0/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-754.152 \pm 225.807$   $\chi^2/\text{NDF}$ : 16.1/4

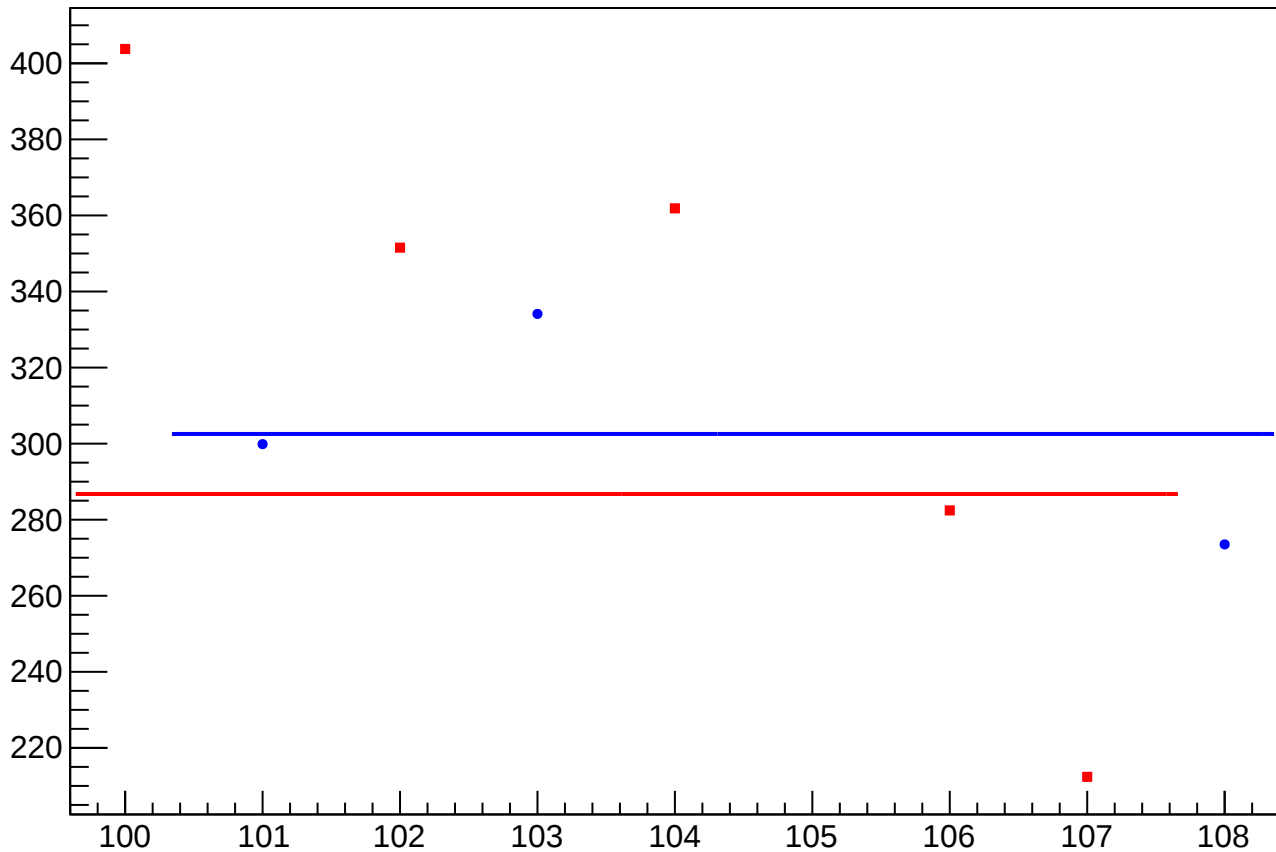
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-988.535 \pm 166.891$   $\chi^2/\text{NDF}$ : 53.5/7

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l07WS\_rms vs Slug



Right In: 302.543 $\pm$ 0.175  $\chi^2$ /NDF: 18311.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 286.759 $\pm$ 0.160  $\chi^2$ /NDF: 174911.1/4

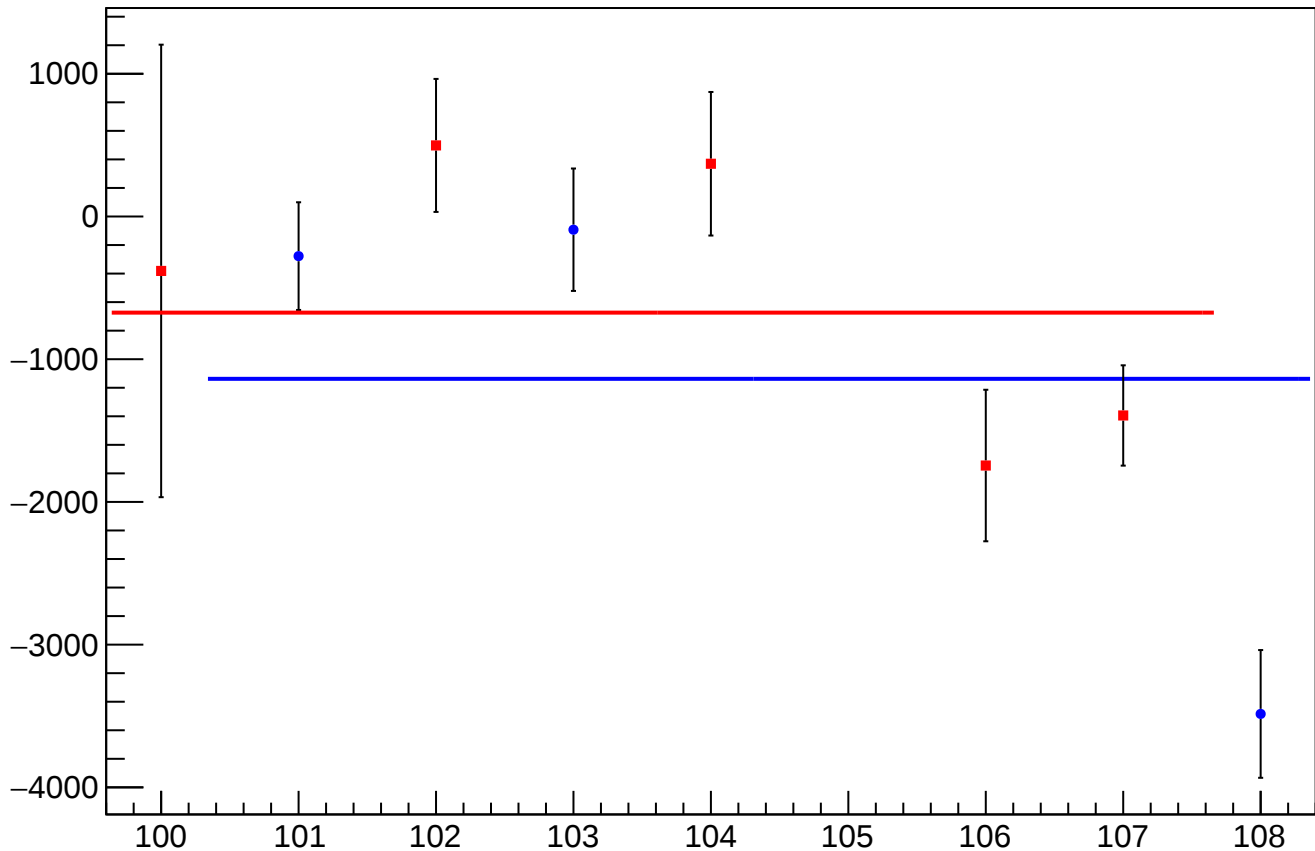
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 293.921 $\pm$ 0.118  $\chi^2$ /NDF: 197656.9/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l08WS\_mean vs Slug



Right In:  $-1137.494 \pm 239.359$   $\chi^2/\text{NDF}$ : 38.7/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-673.603 \pm 220.320$   $\chi^2/\text{NDF}$ : 18.9/4

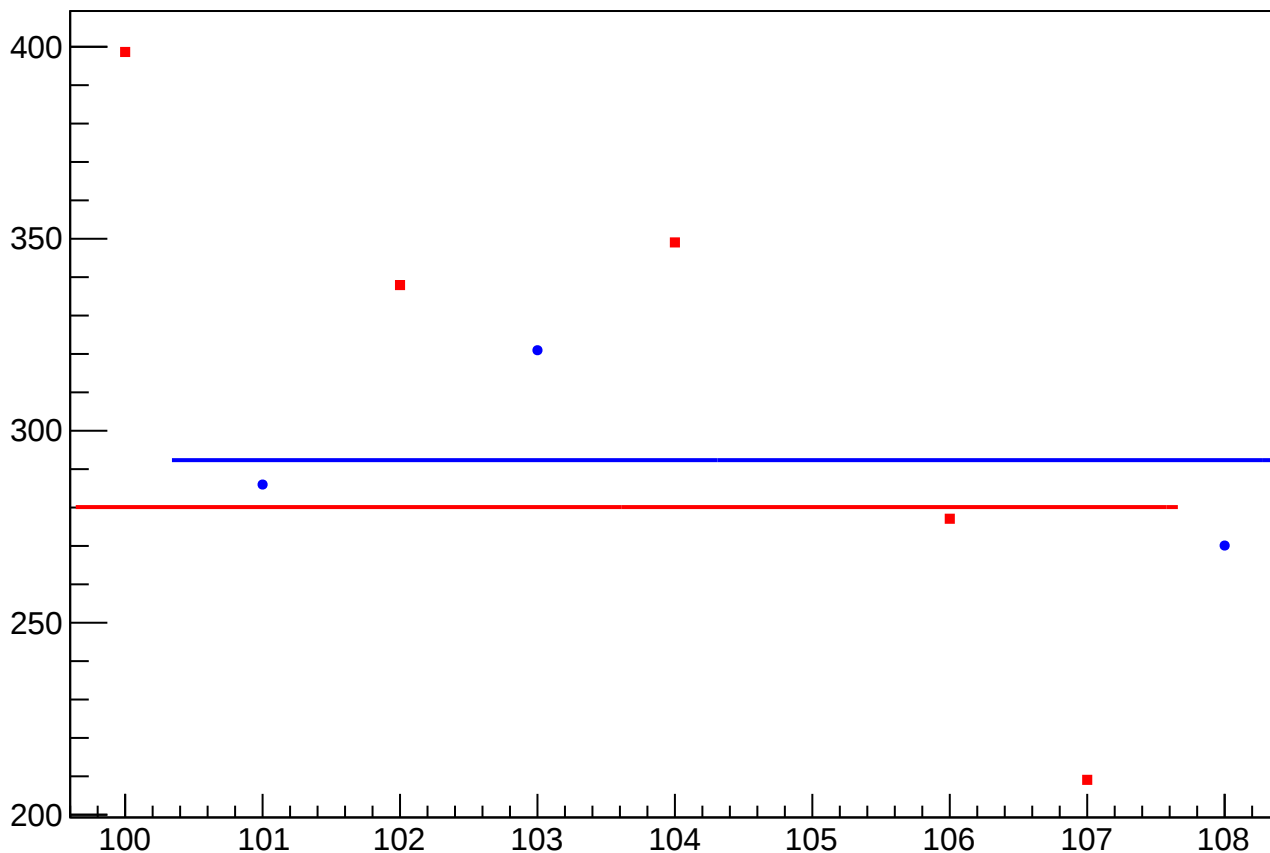
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-886.368 \pm 162.103$   $\chi^2/\text{NDF}$ : 59.6/7

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l08WS\_rms vs Slug



Right In: 292.343+/-0.169  $\chi^2/\text{NDF}$ : 14416.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 280.121+/-0.156  $\chi^2/\text{NDF}$ : 161311.4/4

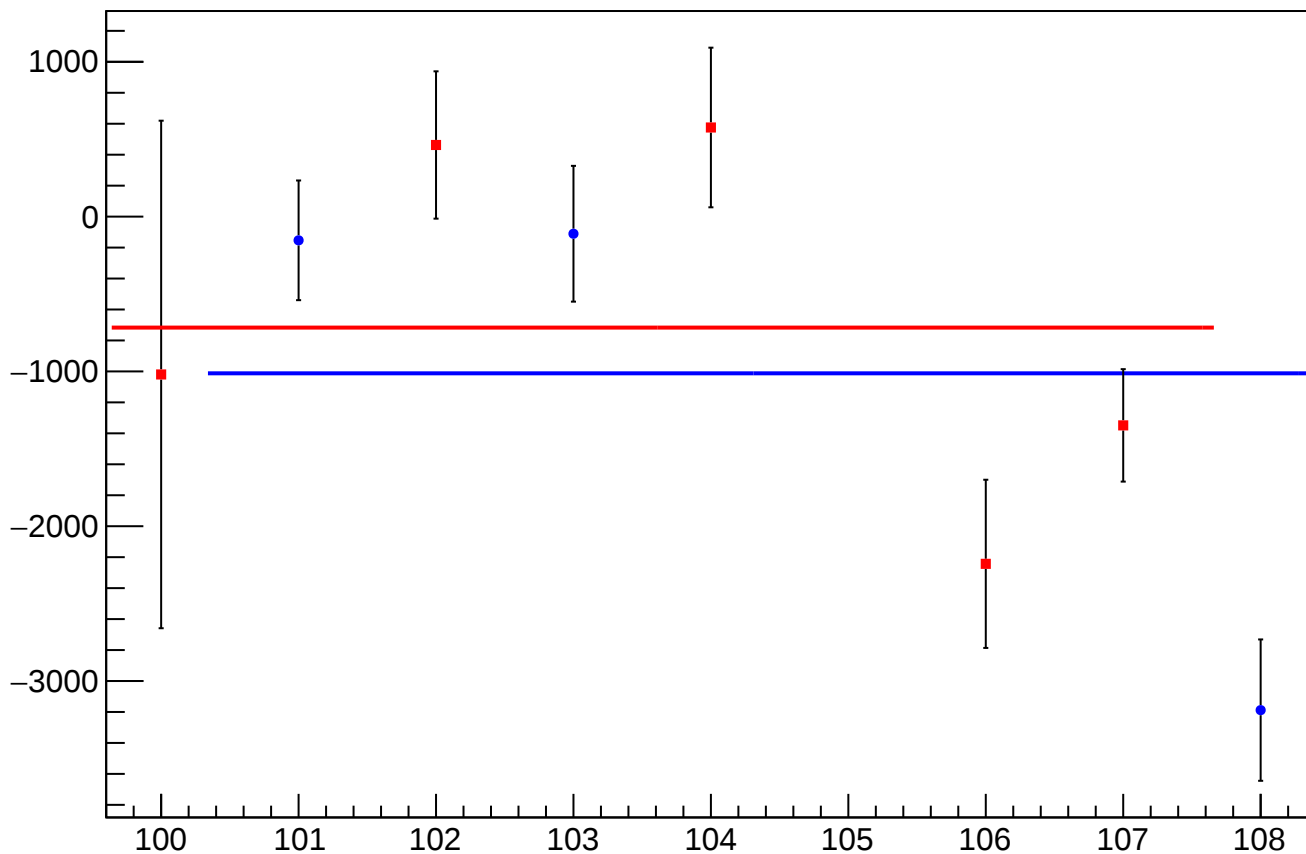
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 285.727+/-0.115  $\chi^2/\text{NDF}$ : 178551.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l09WS\_mean vs Slug



Right In: -1012.318 $\pm$ 244.811  $\chi^2$ /NDF: 31.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -716.895 $\pm$ 226.362  $\chi^2$ /NDF: 23.4/4

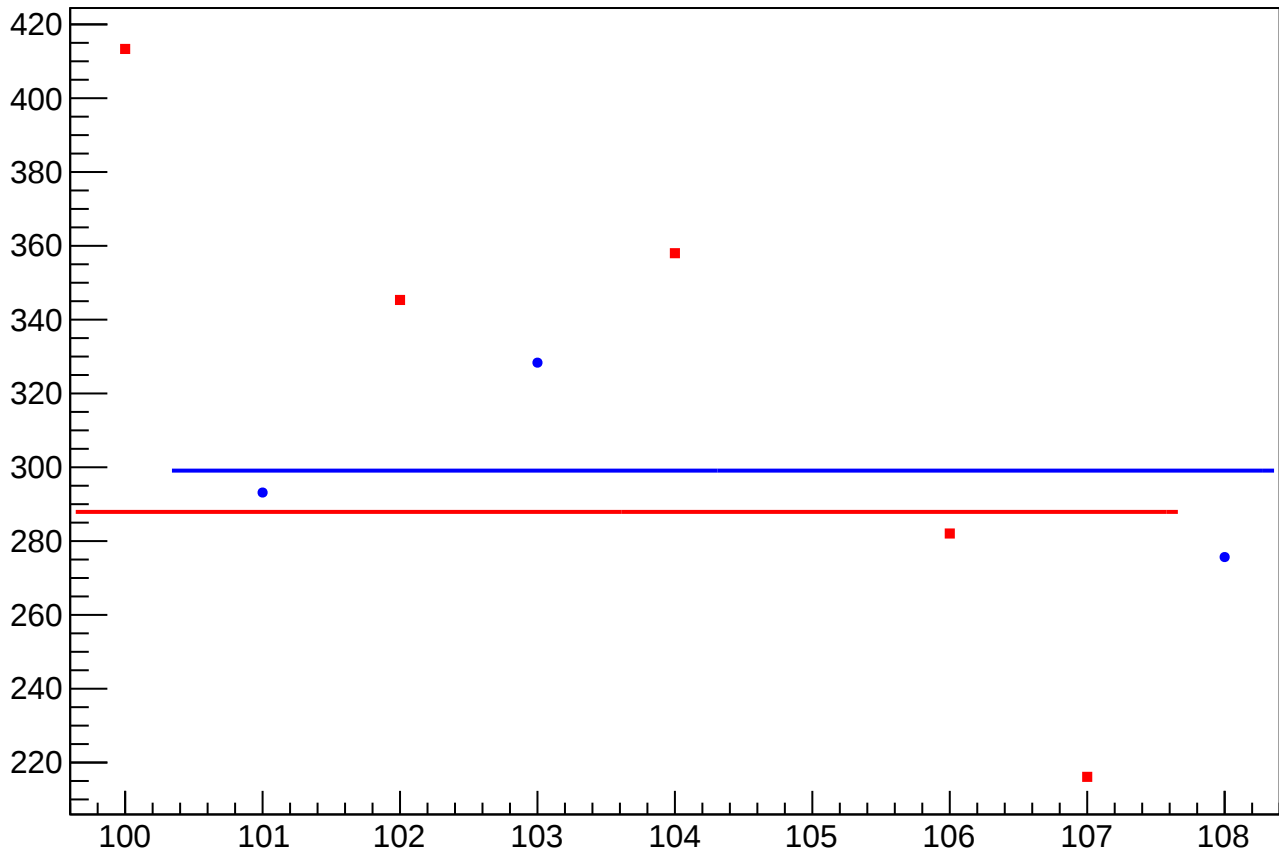
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -853.057 $\pm$ 166.202  $\chi^2$ /NDF: 56.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l09WS\_rms vs Slug



Right In: 299.094 $\pm$ 0.173  $\chi^2$ /NDF: 14629.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 287.910 $\pm$ 0.160  $\chi^2$ /NDF: 156141.3/4

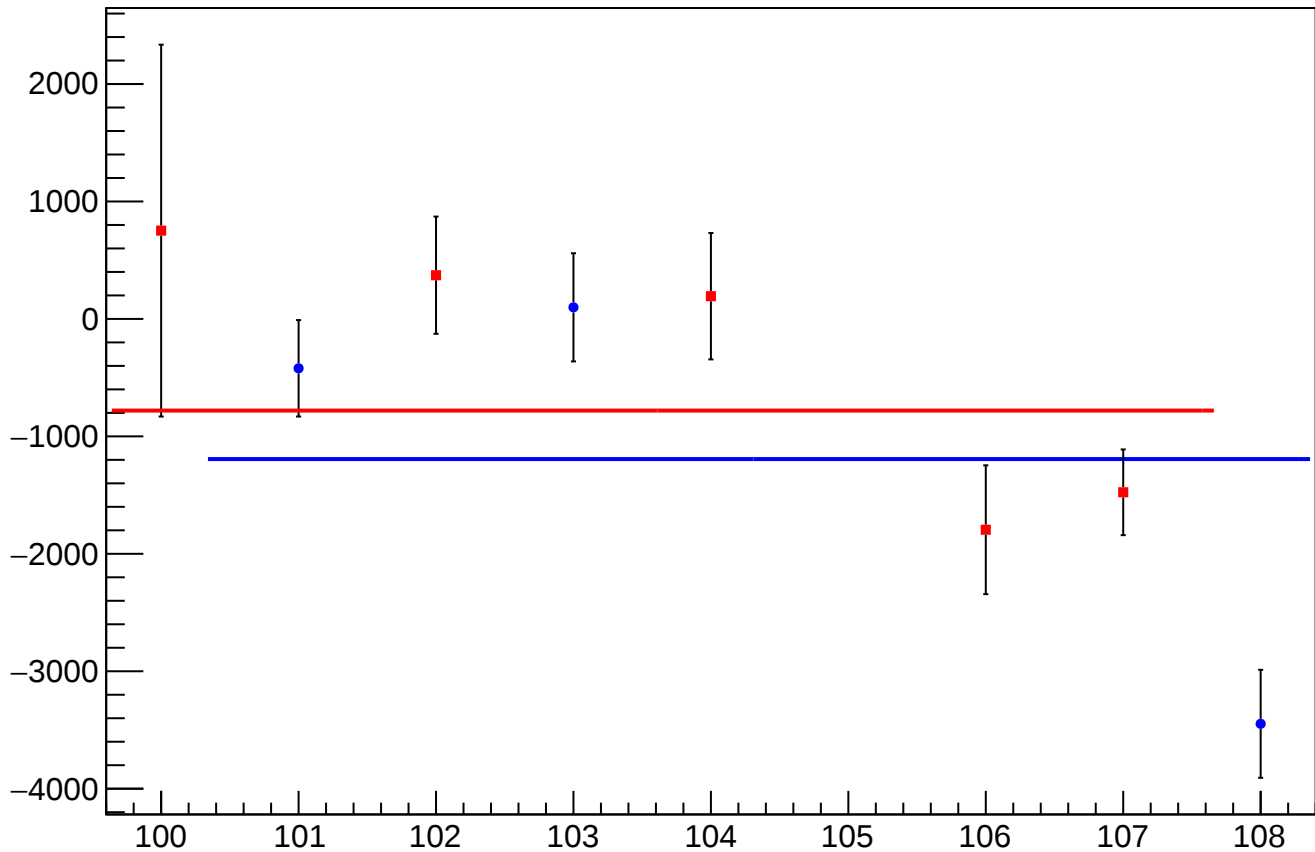
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 293.065 $\pm$ 0.118  $\chi^2$ /NDF: 173021.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l10WS\_mean vs Slug



Right In:  $-1193.279 \pm 255.063$   $\chi^2/\text{NDF}$ : 35.5/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-780.267 \pm 231.221$   $\chi^2/\text{NDF}$ : 16.6/4

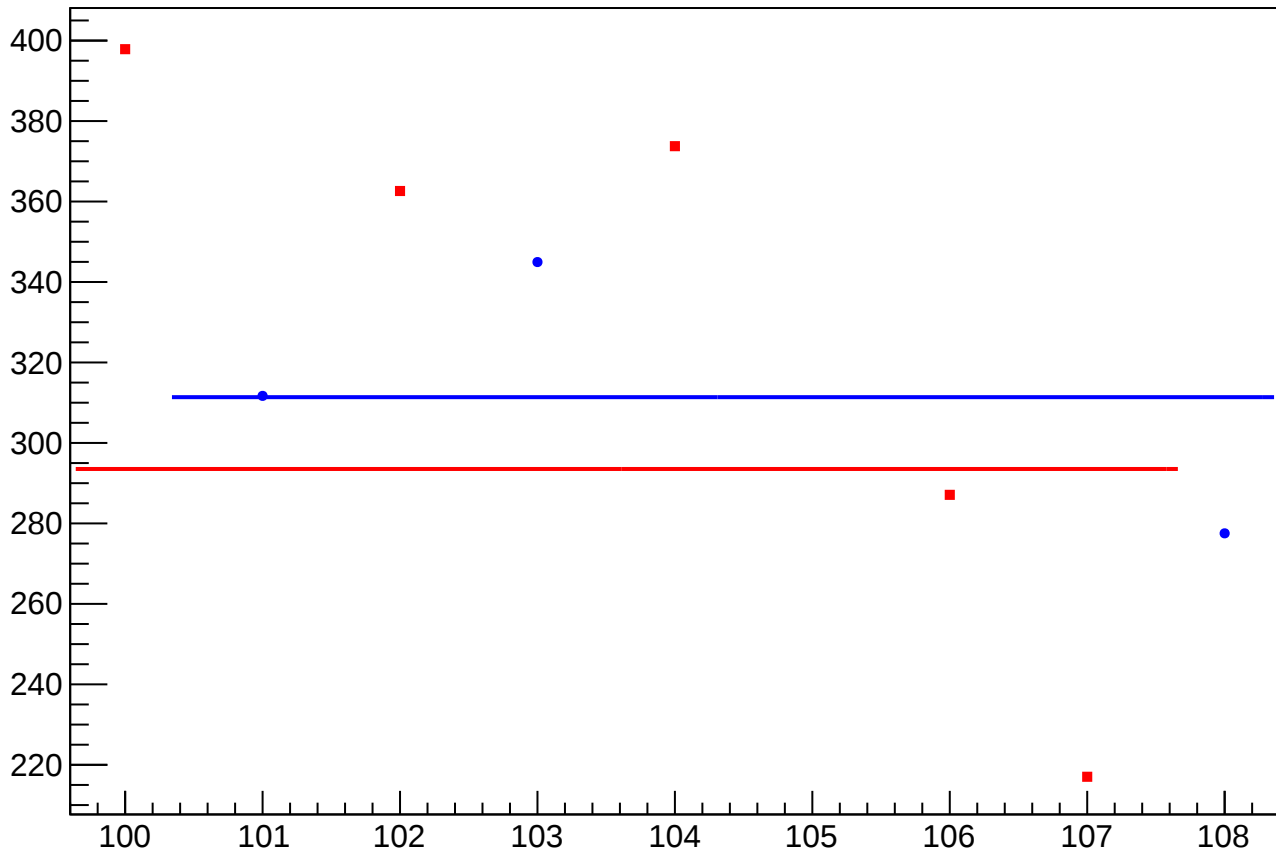
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-966.572 \pm 171.308$   $\chi^2/\text{NDF}$ : 53.5/7

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l10WS\_rms vs Slug



Right In: 311.377 $\pm$ 0.180  $\chi^2$ /NDF: 21469.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 293.529 $\pm$ 0.163  $\chi^2$ /NDF: 179679.2/4

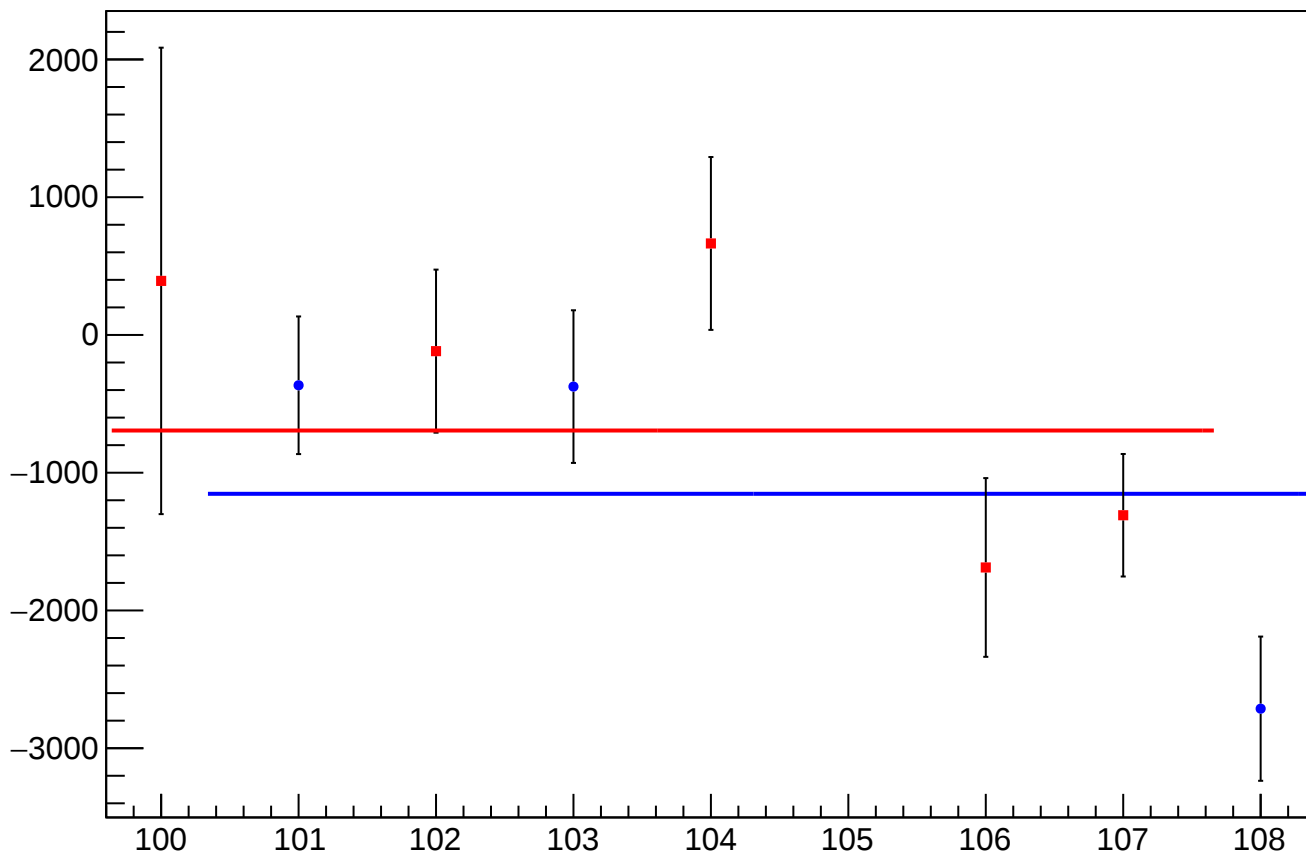
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 301.580 $\pm$ 0.121  $\chi^2$ /NDF: 206524.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0r03WS\_mean vs Slug



Right In: -1153.173 $\pm$ 302.702  $\chi^2$ /NDF: 13.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -693.668 $\pm$ 275.492  $\chi^2$ /NDF: 10.3/4

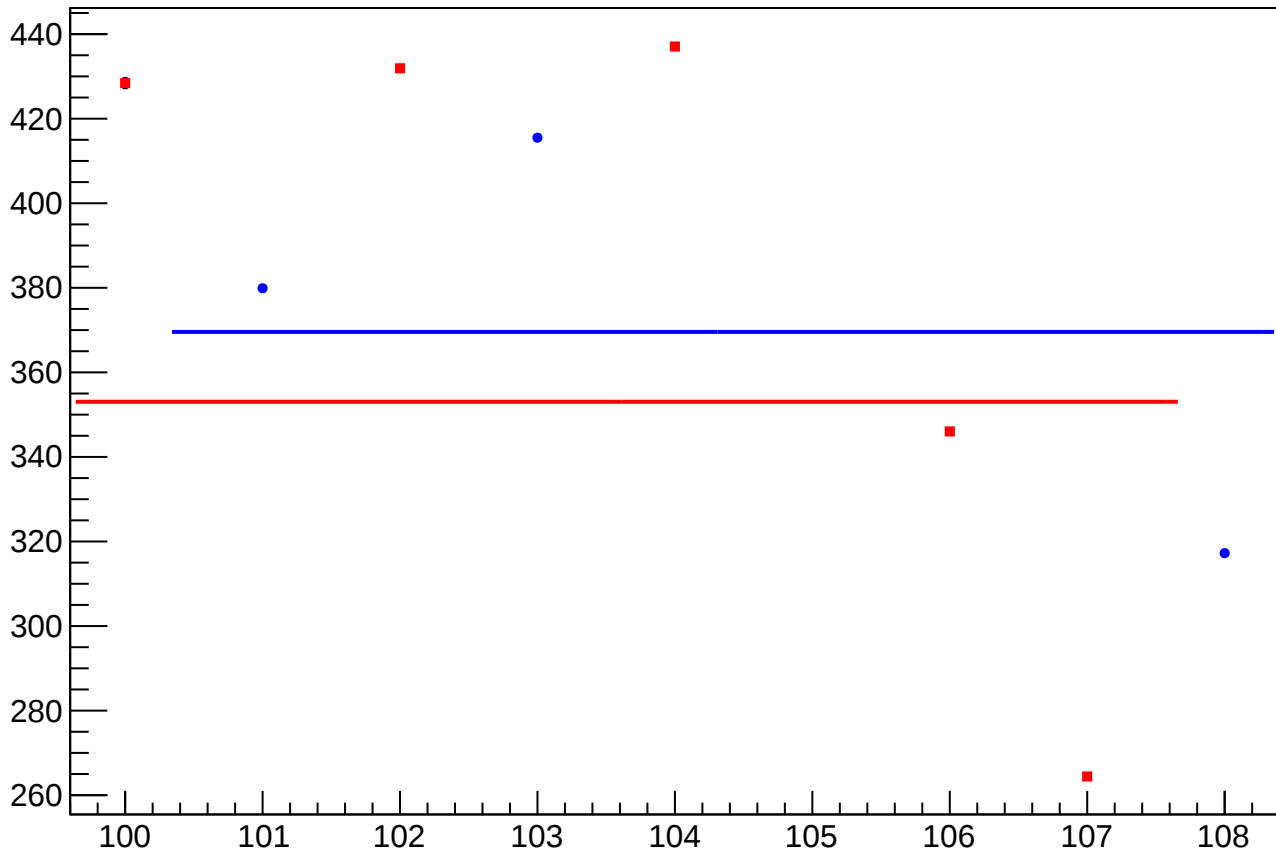
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -901.844 $\pm$ 203.744  $\chi^2$ /NDF: 24.9/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0r03WS\_rms vs Slug



Right In: 369.571 $\pm$ 0.214  $\chi^2$ /NDF: 34590.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 353.051 $\pm$ 0.195  $\chi^2$ /NDF: 154990.5/4

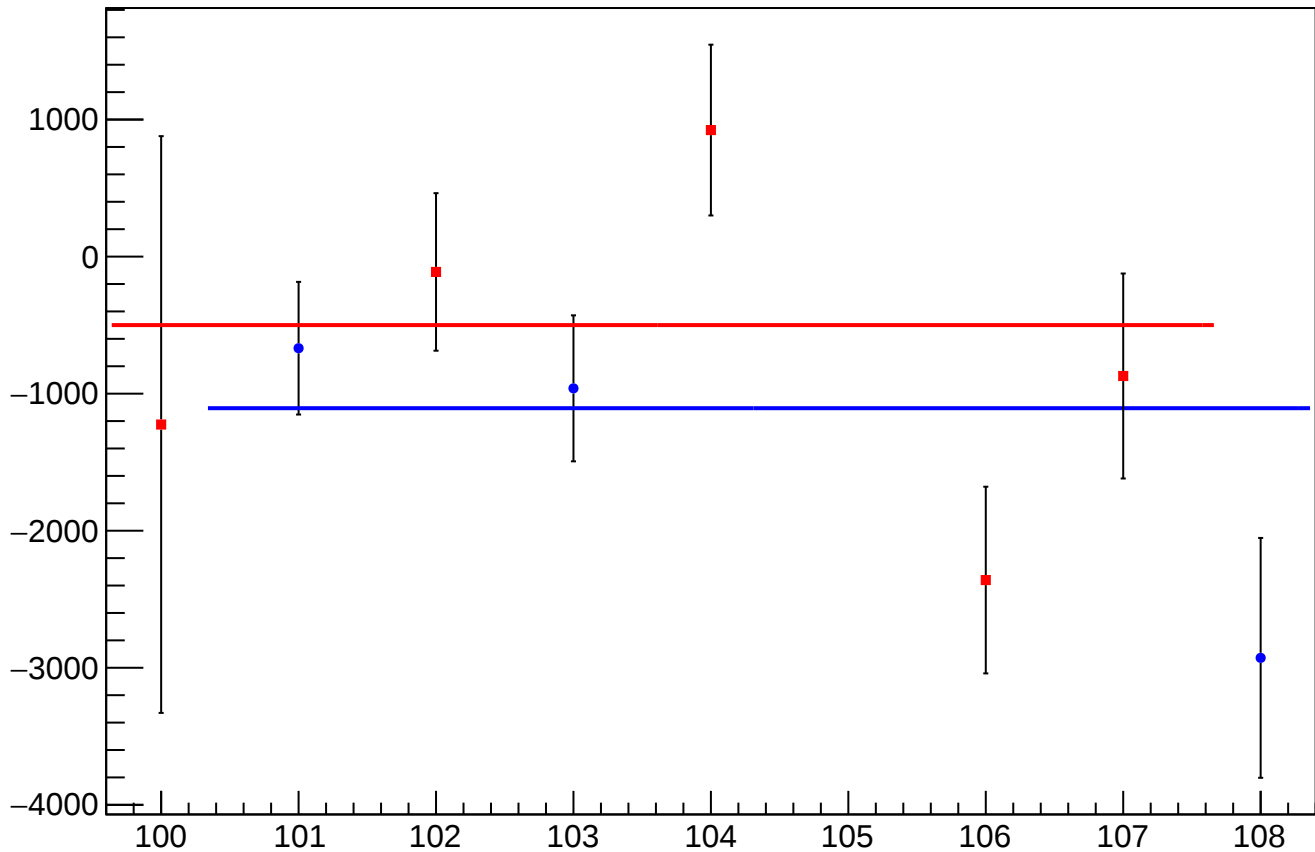
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 360.535 $\pm$ 0.144  $\chi^2$ /NDF: 192839.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0r05WS\_mean vs Slug



Right In:  $-1106.017 \pm 331.483$   $\chi^2/\text{NDF}: 5.2/2$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $-499.655 \pm 319.884$   $\chi^2/\text{NDF}: 13.5/4$

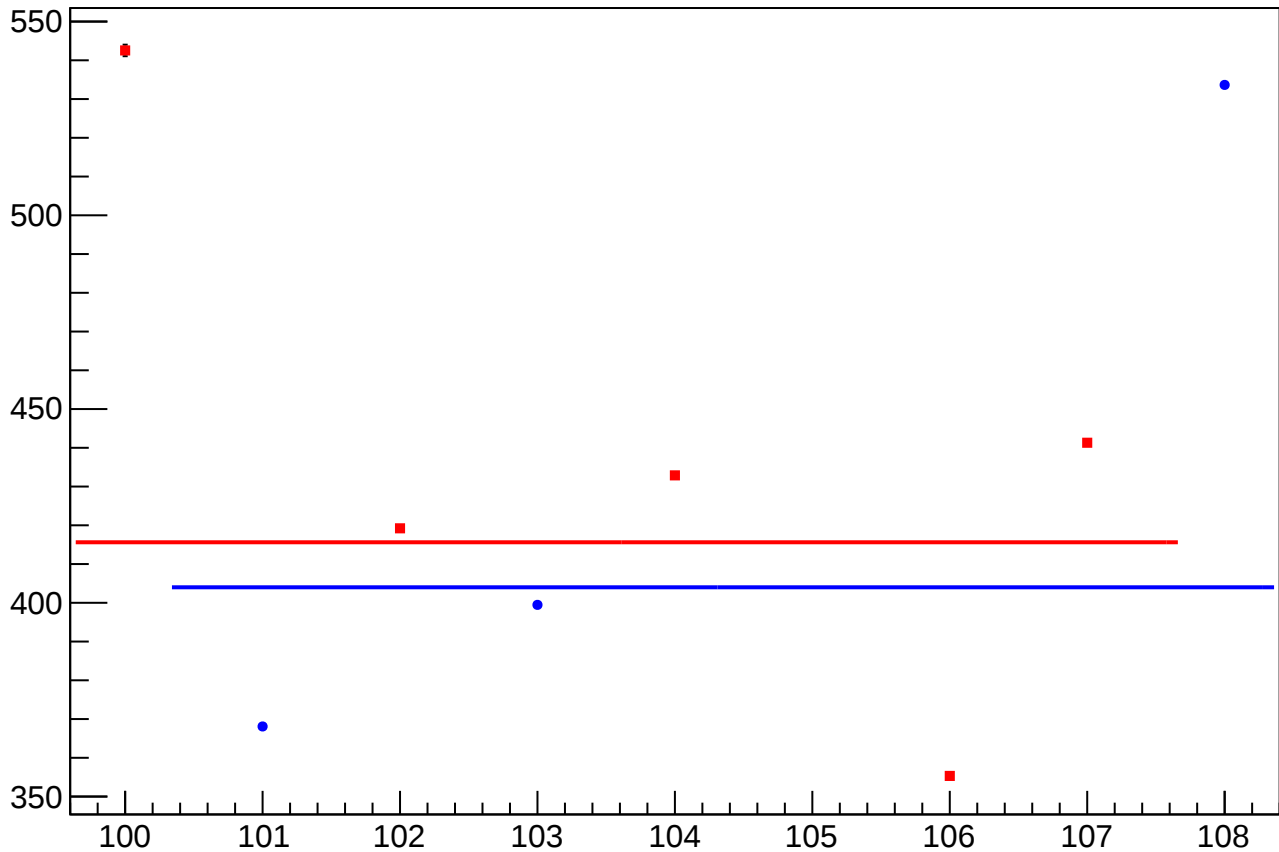
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $-792.042 \pm 230.184$   $\chi^2/\text{NDF}: 20.5/7$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# asym\_bpm0r05WS\_rms vs Slug



Right In: 404.002 $\pm$ 0.234  $\chi^2$ /NDF: 55061.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 415.619 $\pm$ 0.226  $\chi^2$ /NDF: 26928.3/4

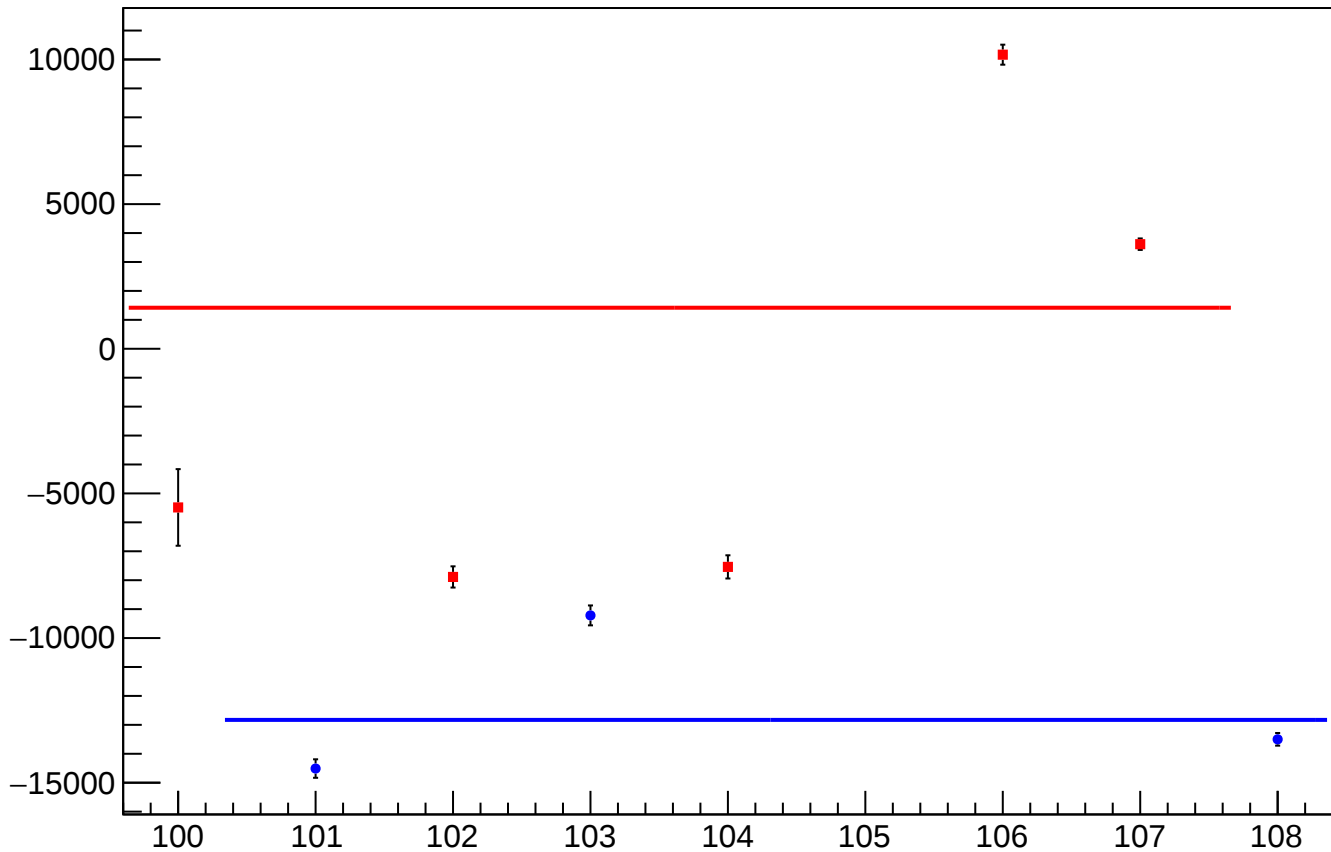
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 410.017 $\pm$ 0.163  $\chi^2$ /NDF: 83261.9/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i02WS\_mean vs Slug



Right In: -12828.986+/-159.873  $\chi^2$ /NDF: 147.2/2

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1418.793+/-144.376  $\chi^2$ /NDF: 1932.5/4

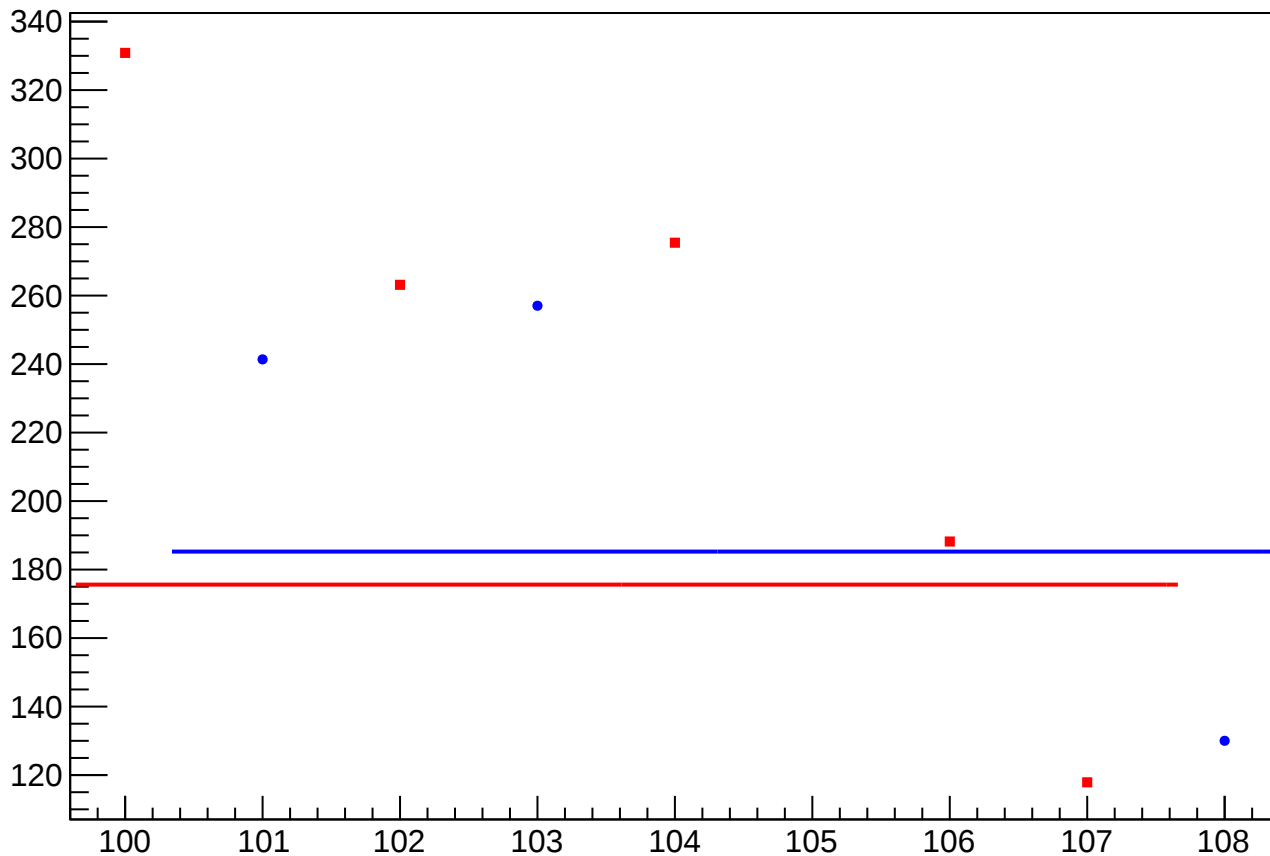
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -4981.238+/-107.150  $\chi^2$ /NDF: 6454.3/7

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i02WS\_rms vs Slug



Right In: 185.253+/-0.113  $\chi^2/\text{NDF}$ : 276156.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 175.614+/-0.102  $\chi^2/\text{NDF}$ : 437261.2/4

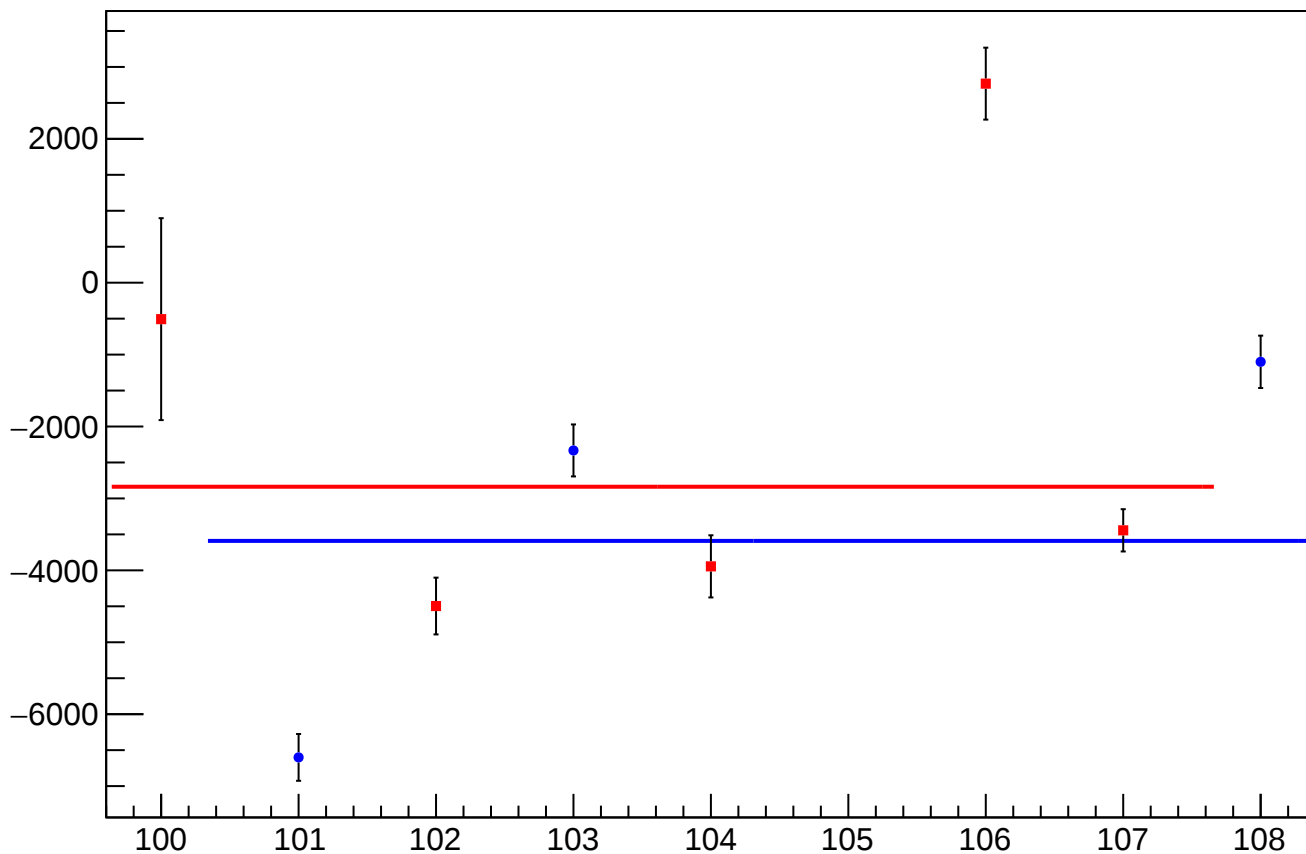
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 179.944+/-0.076  $\chi^2/\text{NDF}$ : 717422.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_mean vs Slug



Right In: -3590.469 $\pm$ 201.465  $\chi^2$ /NDF: 144.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2837.307 $\pm$ 189.504  $\chi^2$ /NDF: 156.8/4

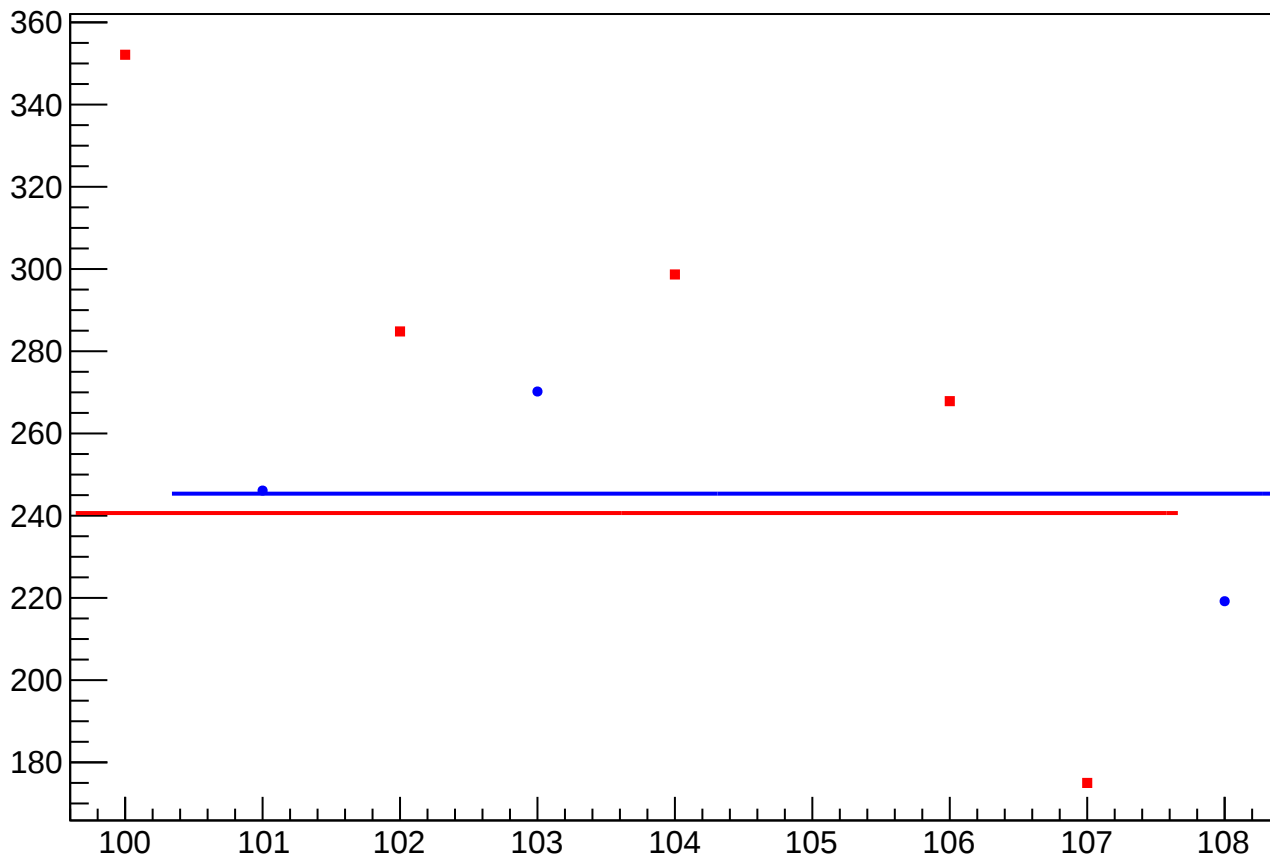
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3190.869 $\pm$ 138.034  $\chi^2$ /NDF: 308.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i02aWS\_rms vs Slug



Right In: 245.359 $\pm$ 0.142  $\chi^2$ /NDF: 19791.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 240.644 $\pm$ 0.134  $\chi^2$ /NDF: 179372.1/4

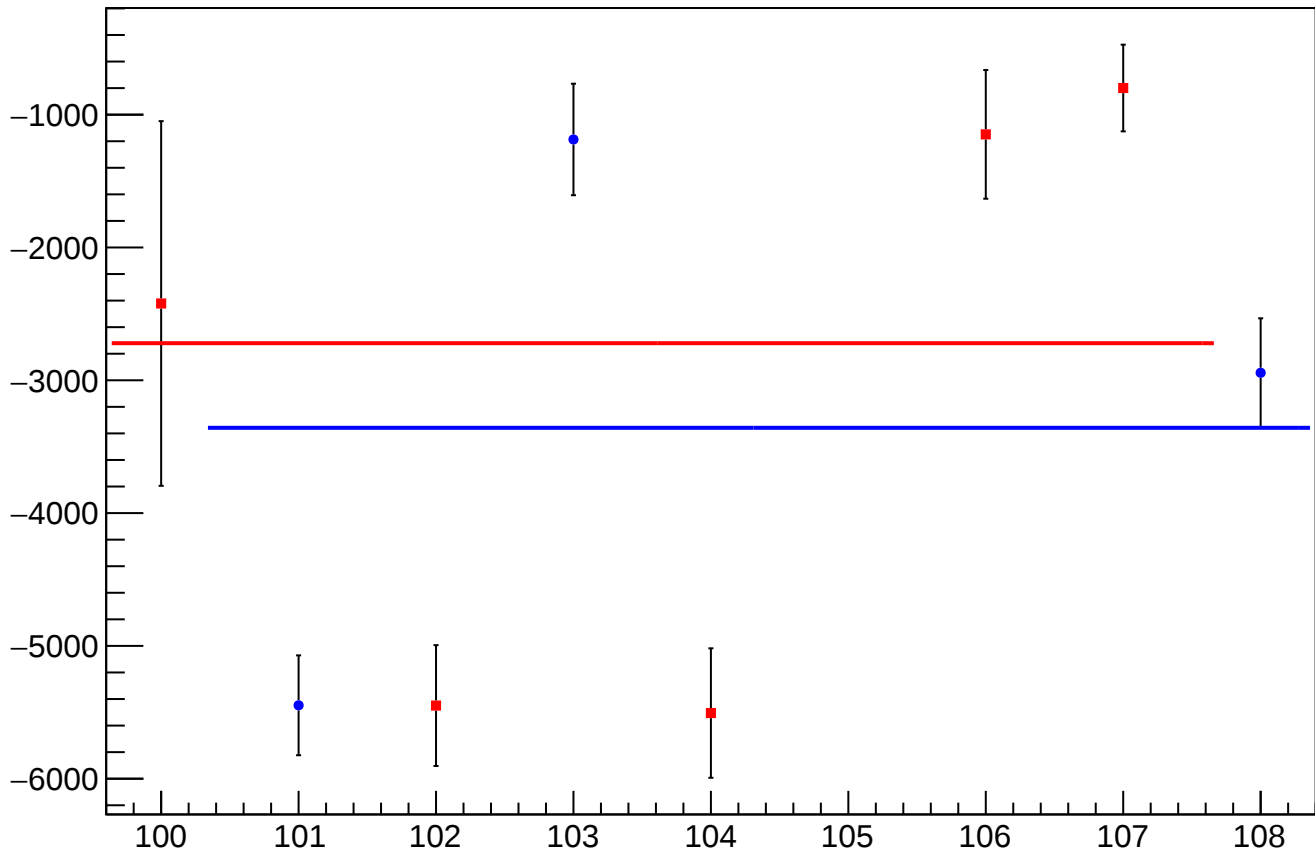
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 242.857 $\pm$ 0.098  $\chi^2$ /NDF: 199745.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i05WS\_mean vs Slug



Right In: -3357.770 $\pm$ 231.283  $\chi^2$ /NDF: 58.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -2720.782 $\pm$ 207.542  $\chi^2$ /NDF: 113.8/4

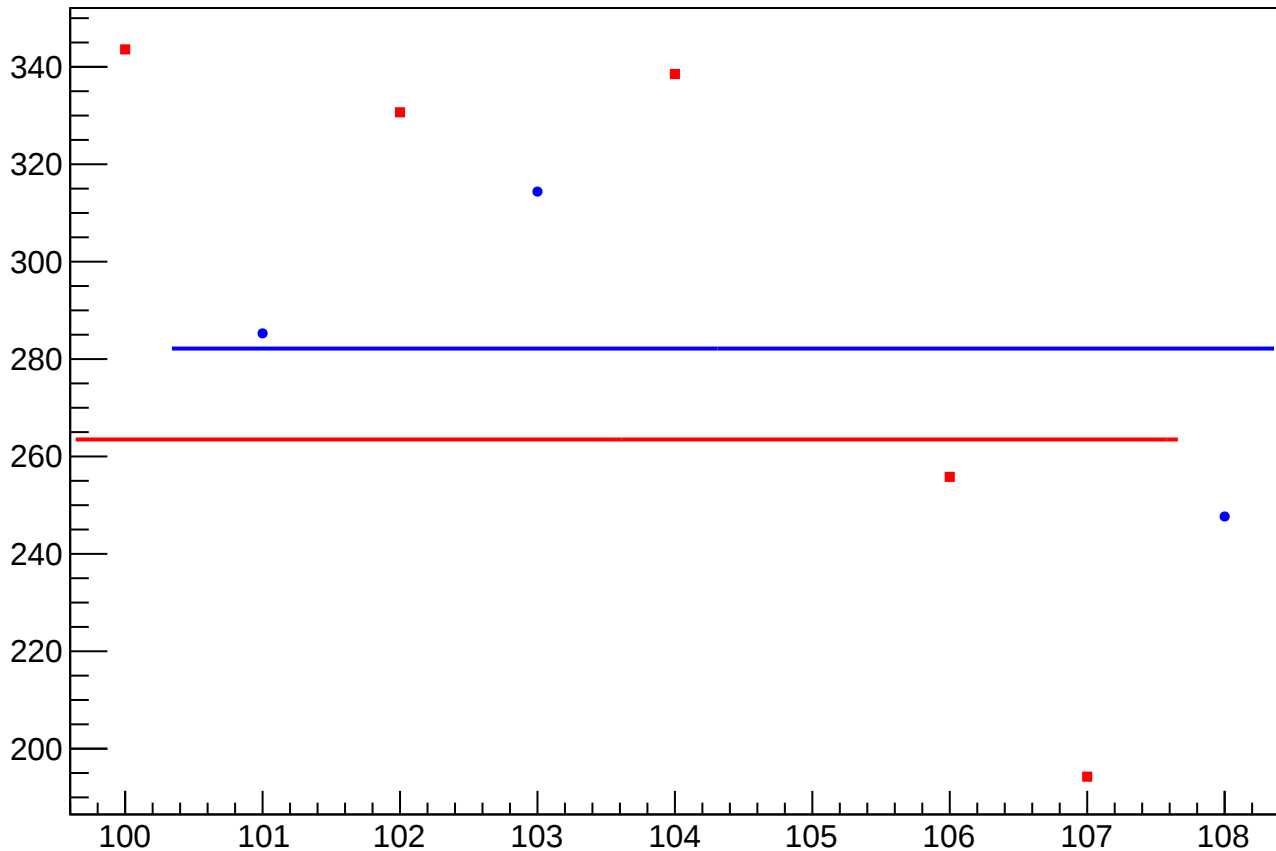
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -3004.914 $\pm$ 154.468  $\chi^2$ /NDF: 176.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i05WS\_rms vs Slug



Right In: 282.160 $\pm$ 0.164  $\chi^2$ /NDF: 26067.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 263.491 $\pm$ 0.147  $\chi^2$ /NDF: 188285.2/4

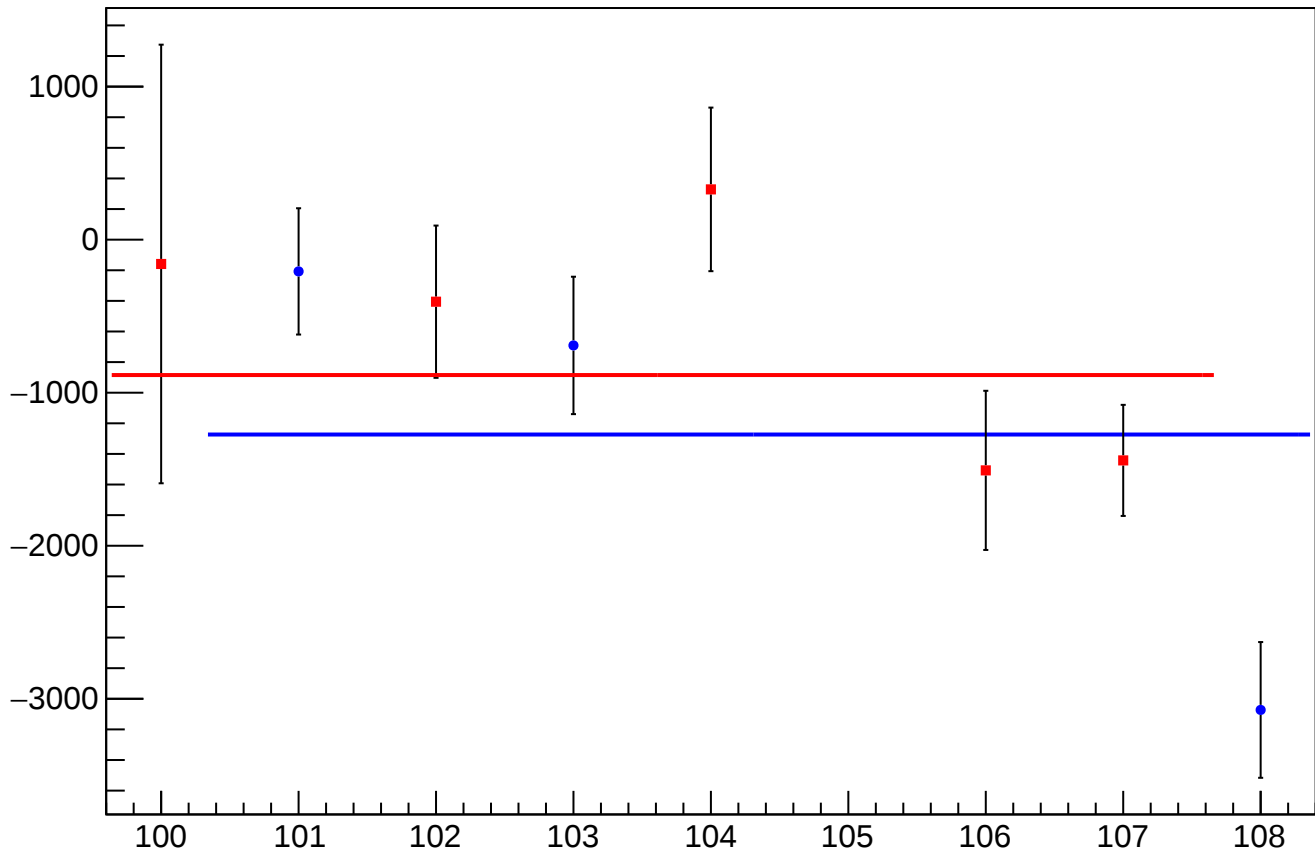
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 271.818 $\pm$ 0.109  $\chi^2$ /NDF: 221571.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i07WS\_mean vs Slug



Right In: -1273.228 $\pm$ 250.625  $\chi^2$ /NDF: 24.8/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -884.614 $\pm$ 227.510  $\chi^2$ /NDF: 10.1/4

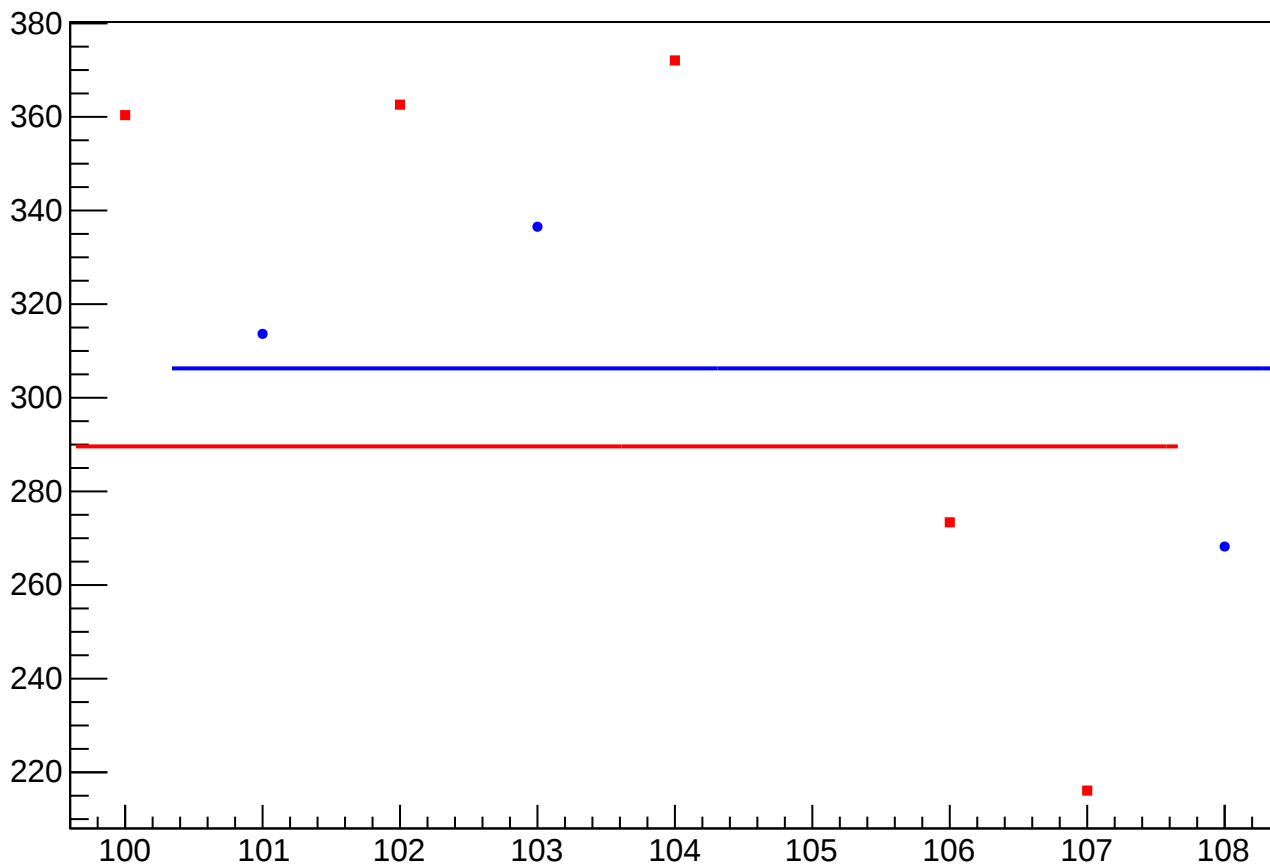
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1060.178 $\pm$ 168.454  $\chi^2$ /NDF: 36.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i07WS\_rms vs Slug



Right In: 306.278 $\pm$ 0.177  $\chi^2$ /NDF: 24449.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 289.612 $\pm$ 0.161  $\chi^2$ /NDF: 179546.6/4

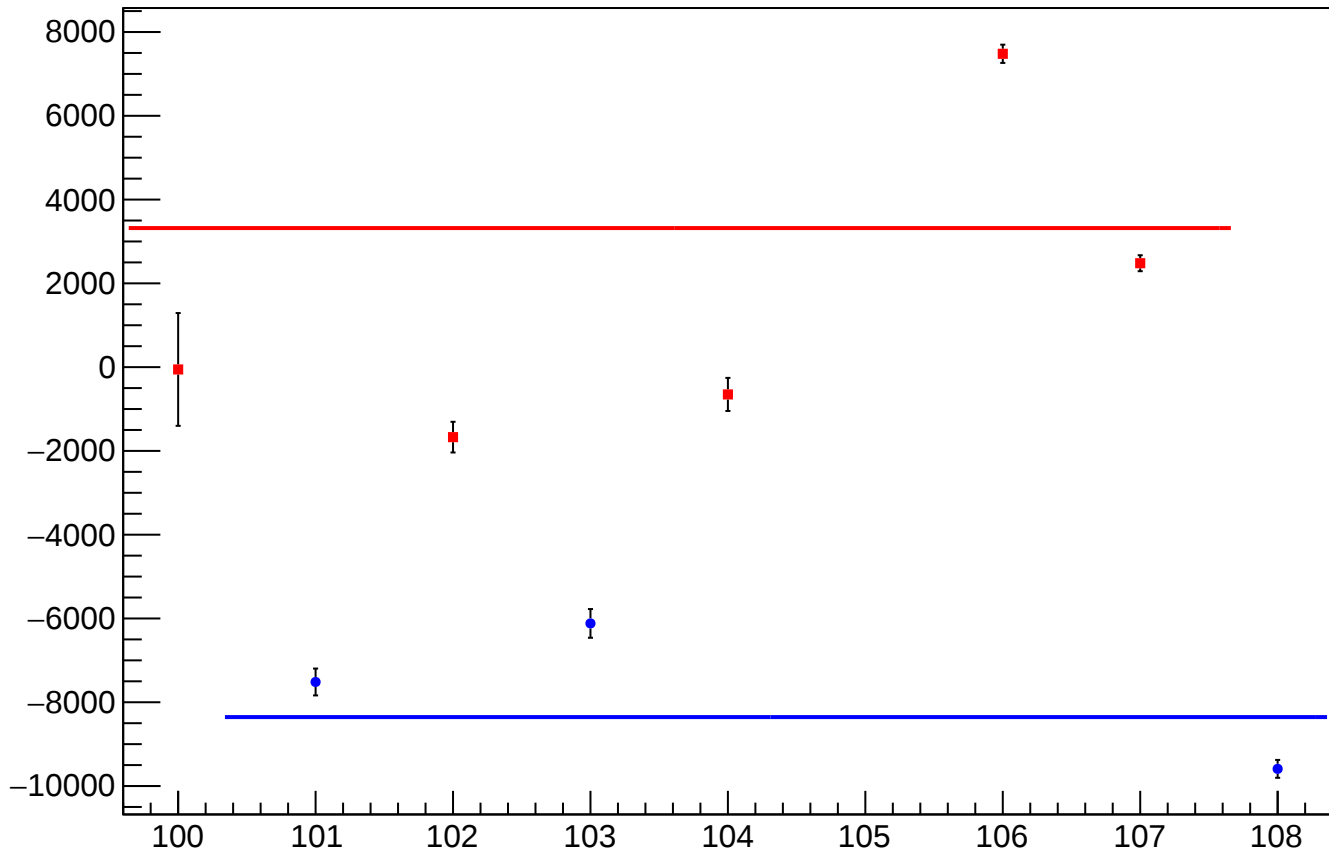
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 297.141 $\pm$ 0.119  $\chi^2$ /NDF: 208844.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i02WS\_mean vs Slug



Right In: -8354.329+/-157.678  $\chi^2/\text{NDF}$ : 83.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3320.022+/-125.954  $\chi^2/\text{NDF}$ : 677.2/4

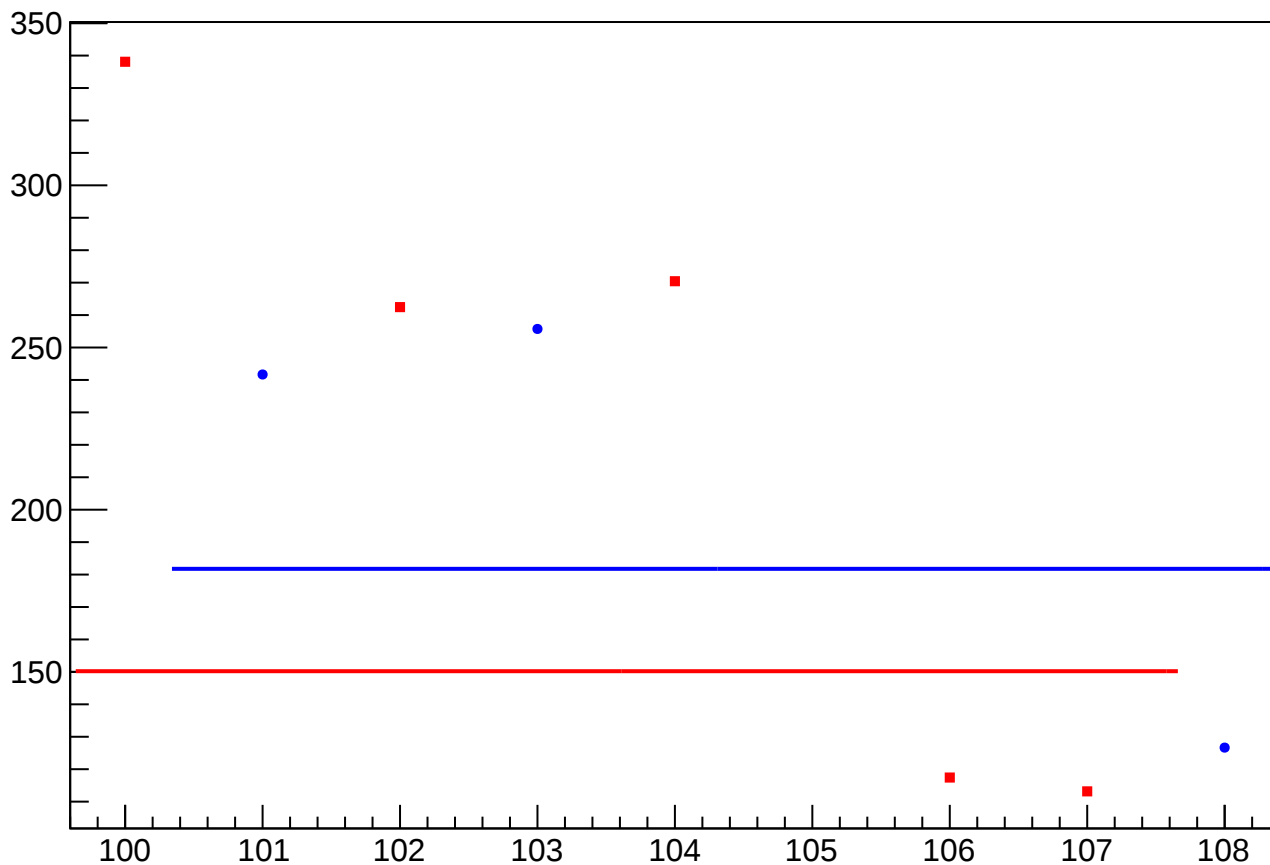
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1227.520+/-98.411  $\chi^2/\text{NDF}$ : 4106.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i02WS\_rms vs Slug



Right In: 181.771+/-0.111  $\chi^2/\text{NDF}$ : 296481.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 150.211+/-0.089  $\chi^2/\text{NDF}$ : 533026.7/4

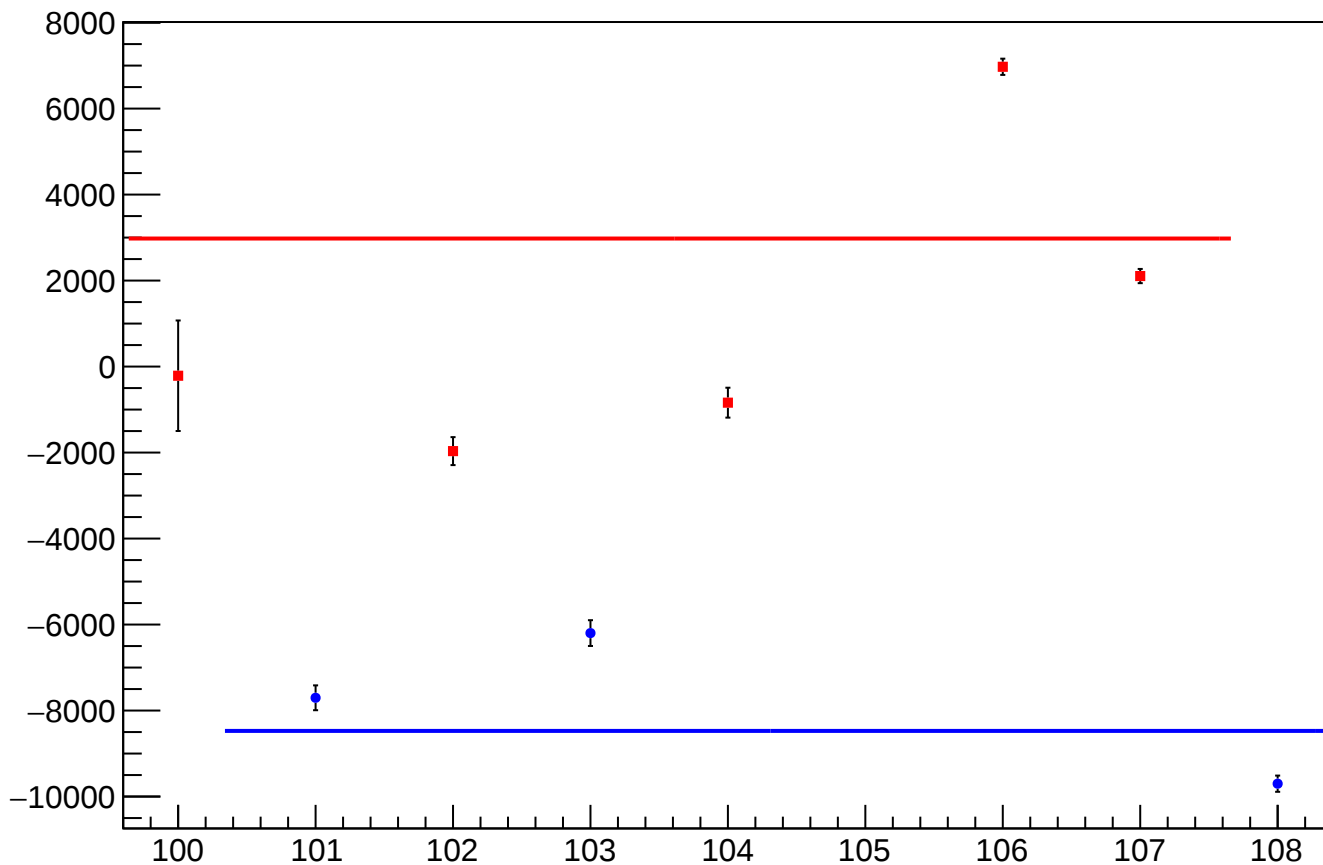
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 162.505+/-0.070  $\chi^2/\text{NDF}$ : 878420.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i04WS\_mean vs Slug



Right In: -8473.444 $\pm$ 139.729  $\chi^2$ /NDF: 107.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2977.912 $\pm$ 109.761  $\chi^2$ /NDF: 833.7/4

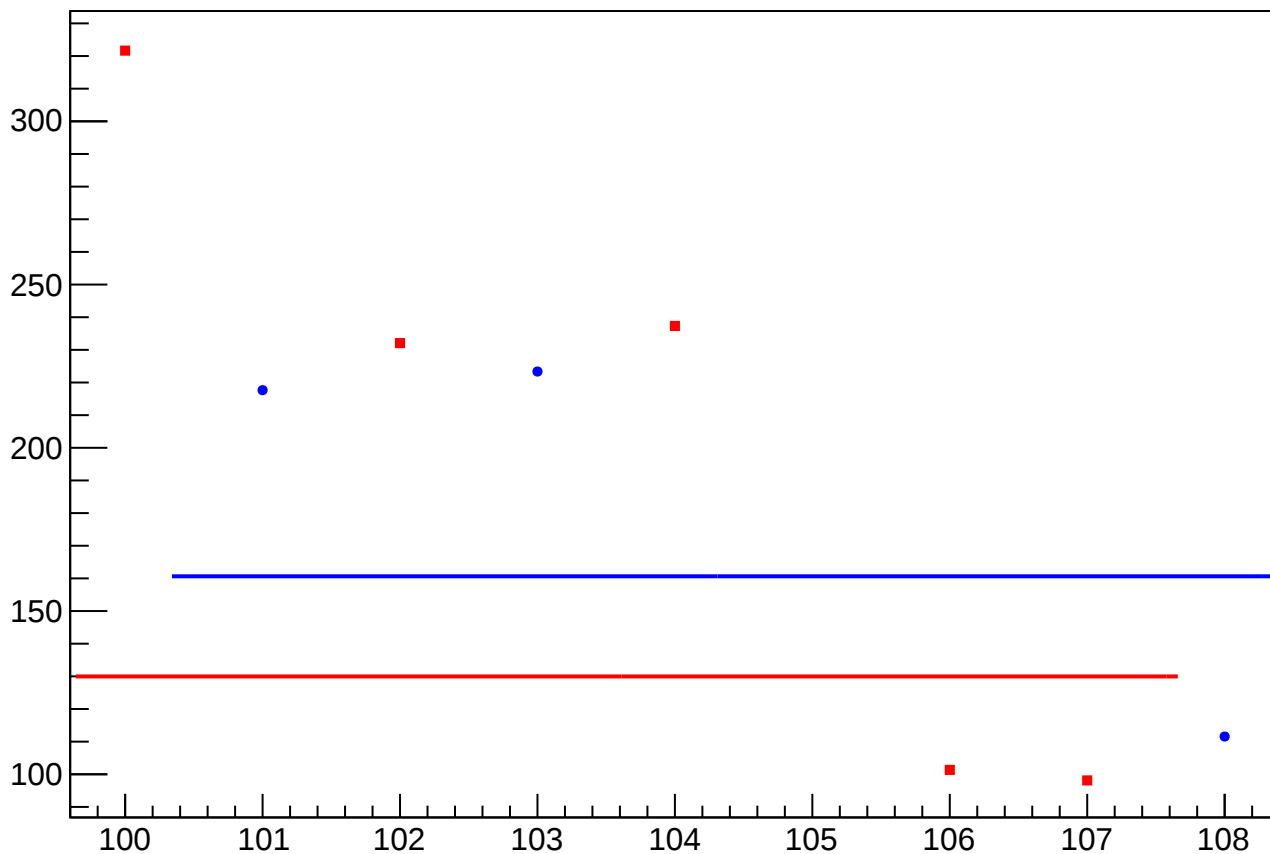
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1391.835 $\pm$ 86.315  $\chi^2$ /NDF: 5094.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i04WS\_rms vs Slug



Right In: 160.643 $\pm$ 0.099  $\chi^2$ /NDF: 300773.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 129.969 $\pm$ 0.078  $\chi^2$ /NDF: 552480.7/4

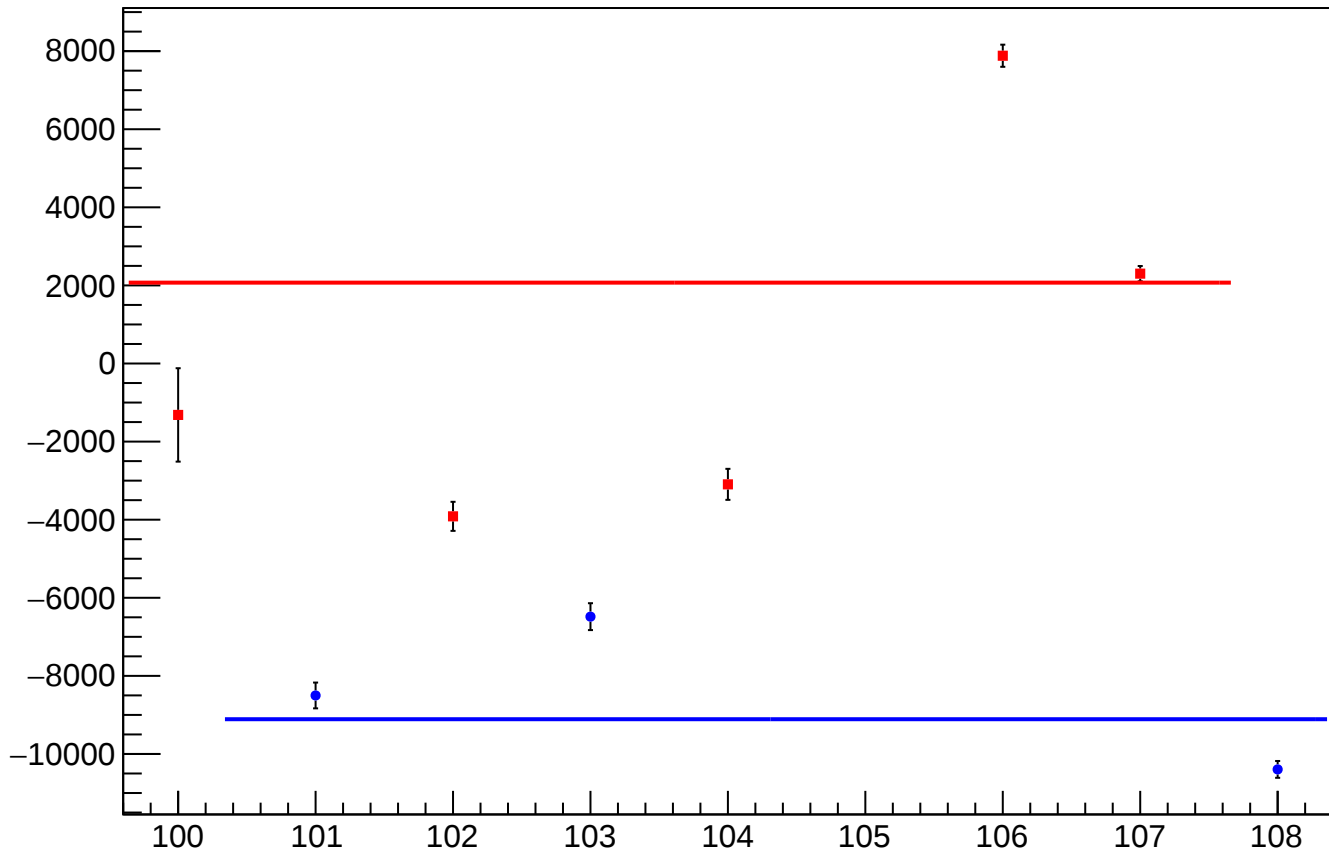
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 141.674 $\pm$ 0.061  $\chi^2$ /NDF: 912859.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i06WS\_mean vs Slug



Right In: -9109.980 $\pm$ 159.735  $\chi^2$ /NDF: 97.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 2071.147 $\pm$ 137.537  $\chi^2$ /NDF: 858.1/4

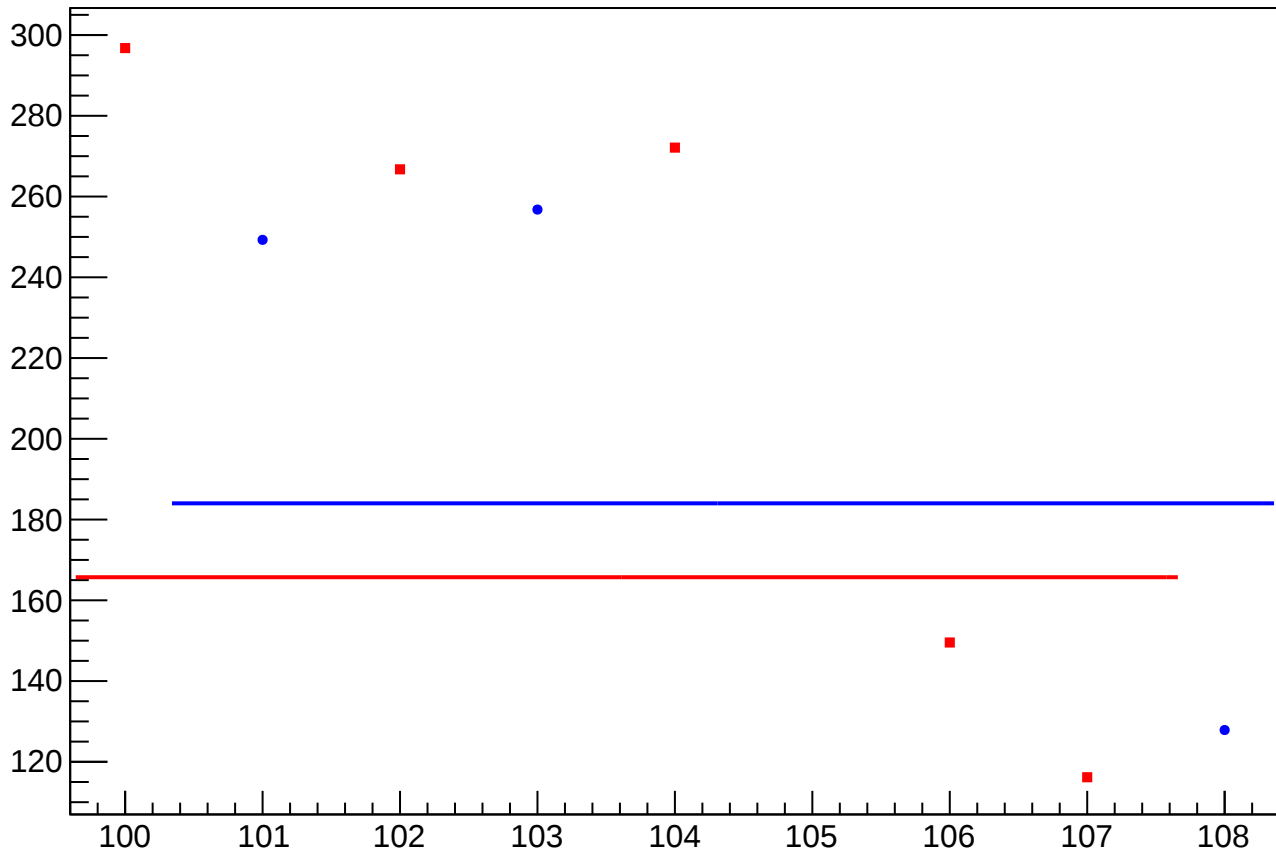
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -2689.100 $\pm$ 104.225  $\chi^2$ /NDF: 3769.0/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i06WS\_rms vs Slug



Right In: 184.017 $\pm$ 0.113  $\chi^2$ /NDF: 303510.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 165.718 $\pm$ 0.097  $\chi^2$ /NDF: 449958.0/4

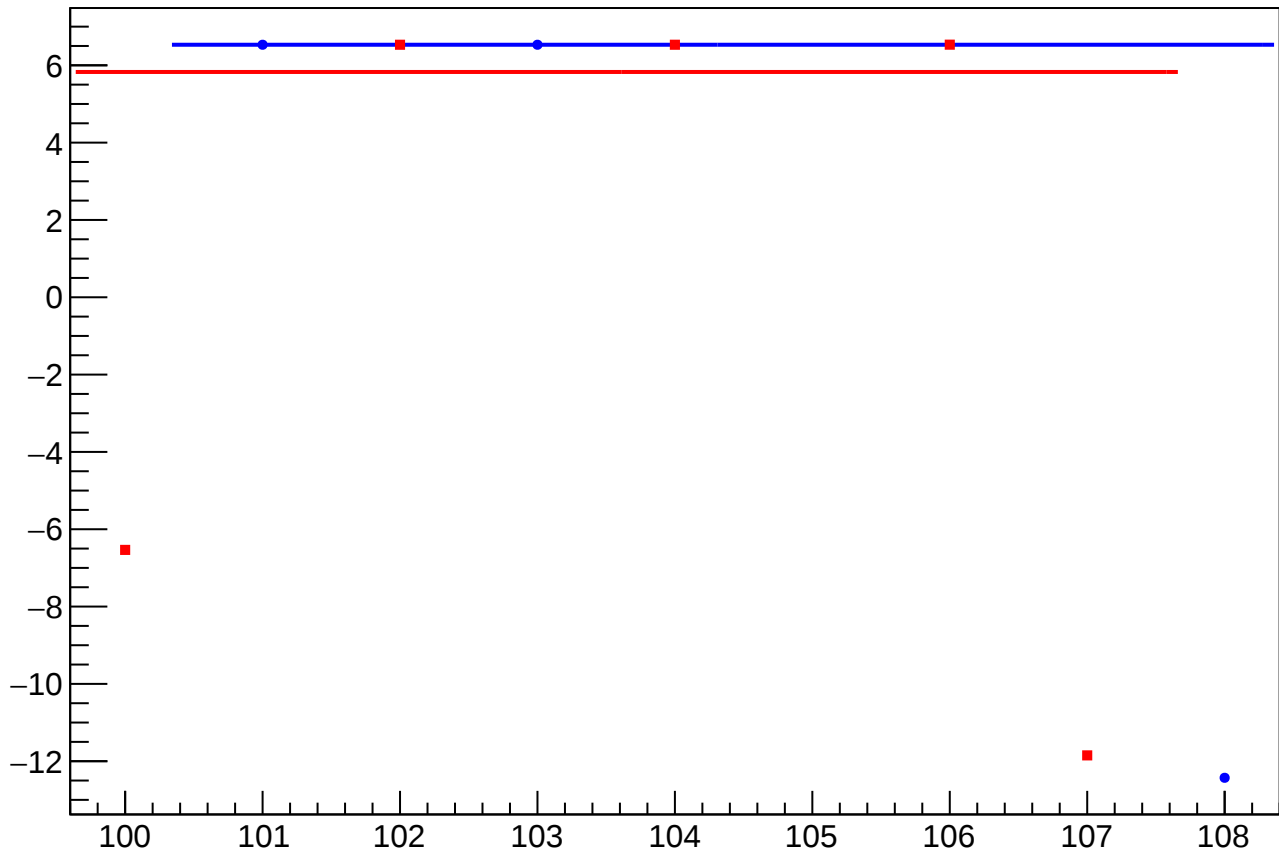
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 173.509 $\pm$ 0.074  $\chi^2$ /NDF: 768540.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4bX\_mean vs Slug



Right In: 6.532 $\pm$ 0.000  $\chi^2$ /NDF: 10640144028.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

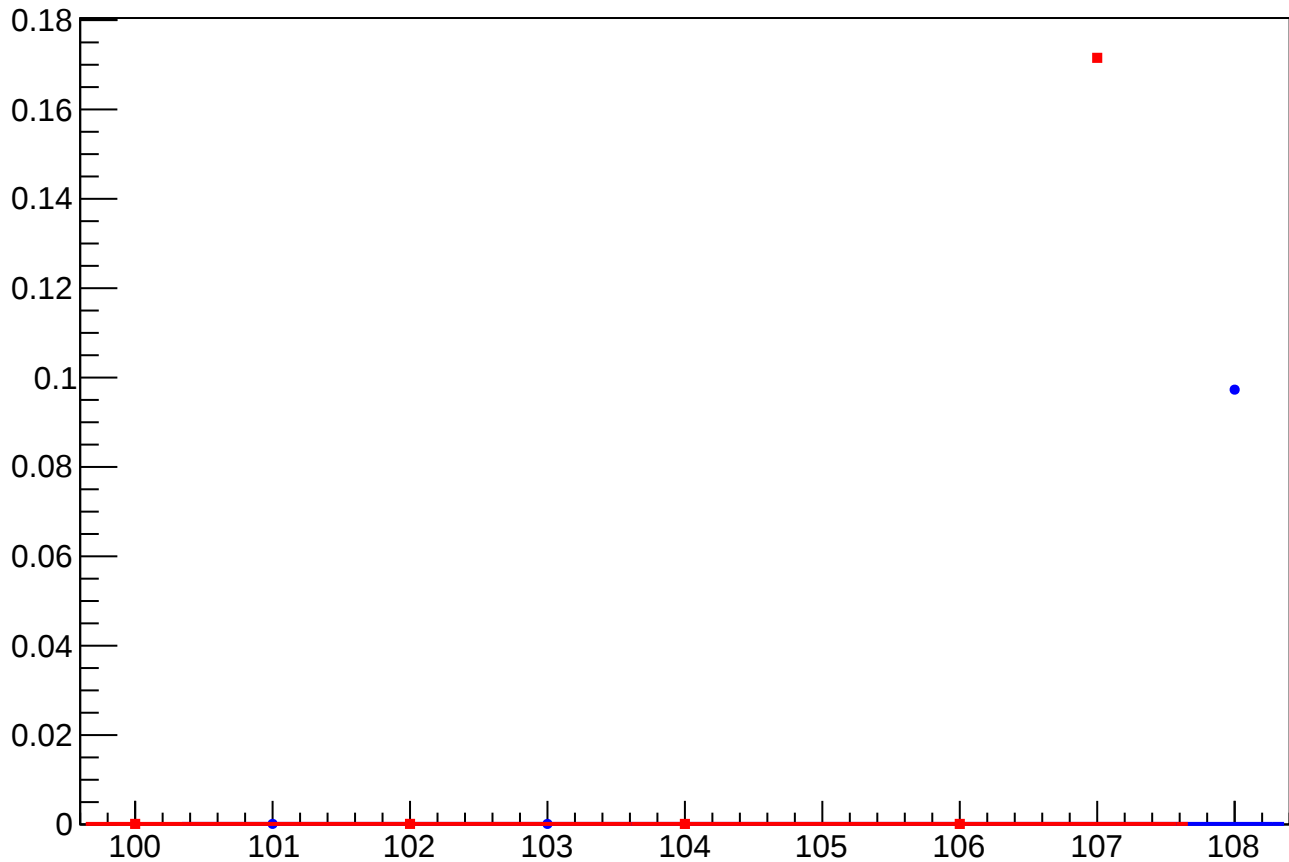
Right Out: 5.828 $\pm$ 0.000  $\chi^2$ /NDF: 755838058053350.9/4

All: 6.155 $\pm$ 0.000  $\chi^2$ /NDF: 77585337311083

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

yield\_cav4bX\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 561894.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 286410.6/4

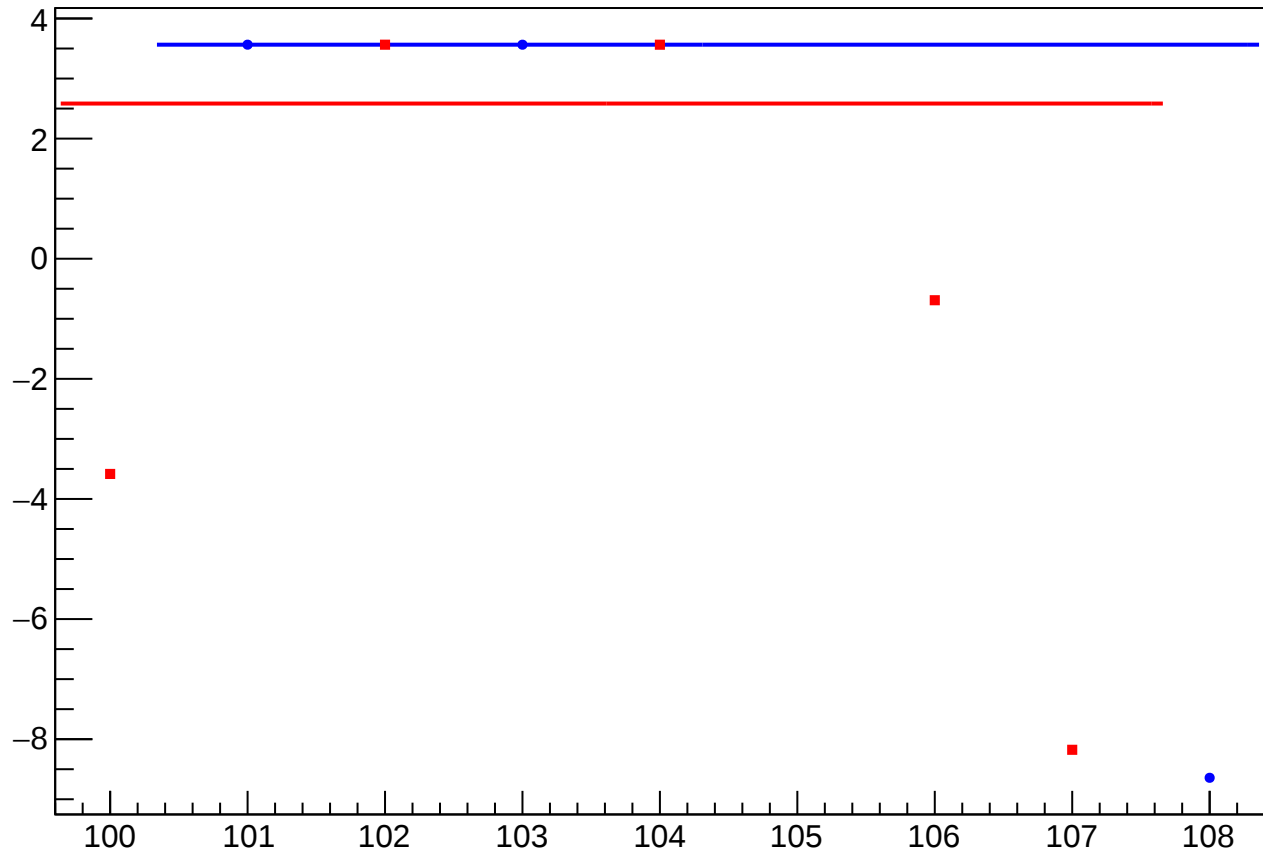
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 848511.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4bY\_mean vs Slug



Right In: 3.564+/-0.000  $\chi^2/\text{NDF}$ : 5490398194.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.584+/-0.000  $\chi^2/\text{NDF}$ : 1253238726106388.0/4

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.041+/-0.000  $\chi^2/\text{NDF}$ : 1381546595661.0/4

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4bY\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 566620.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 412337.0/4

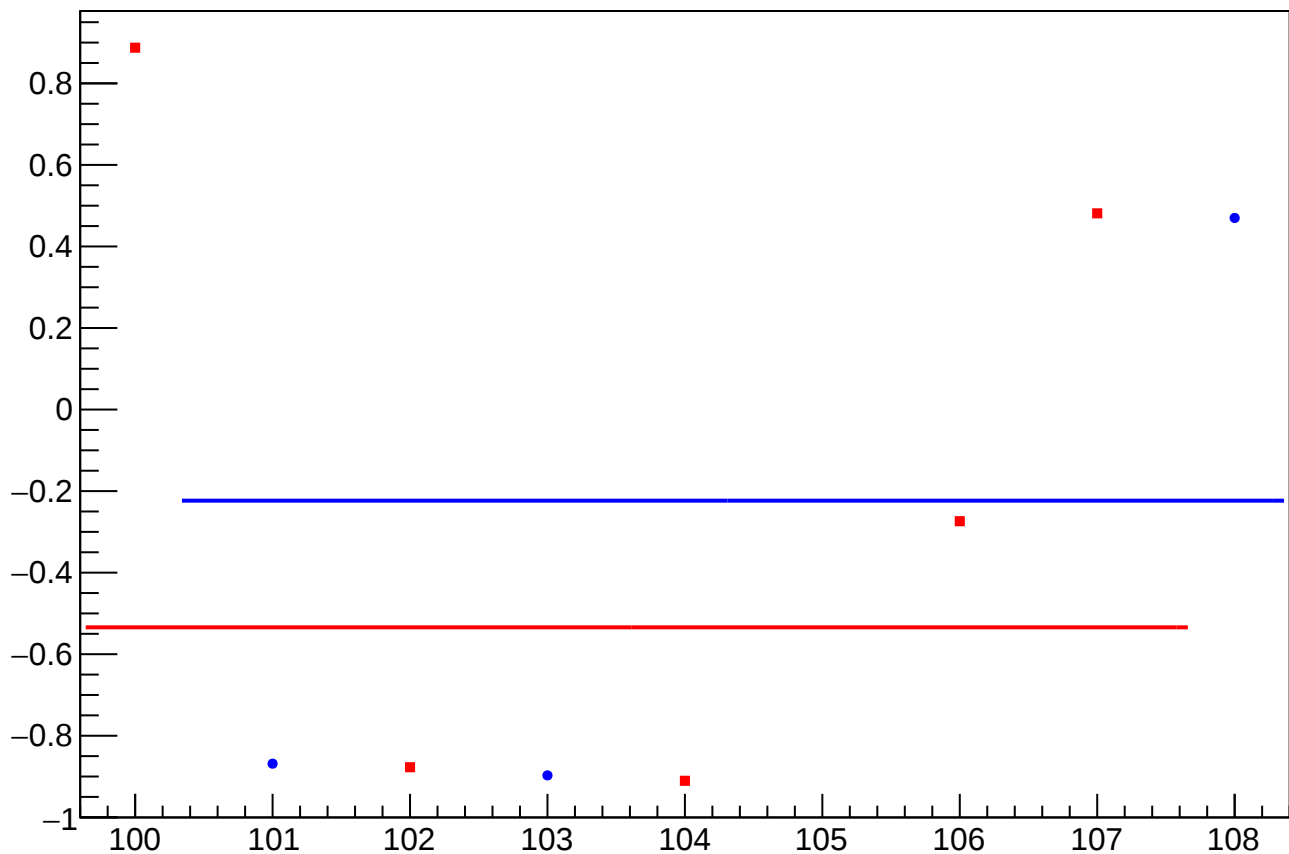
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 979138.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cX\_mean vs Slug



Right In: -0.223+/-0.000  $\chi^2/\text{NDF}$ : 8821350840.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.534+/-0.000  $\chi^2/\text{NDF}$ : 1391523707.8/4

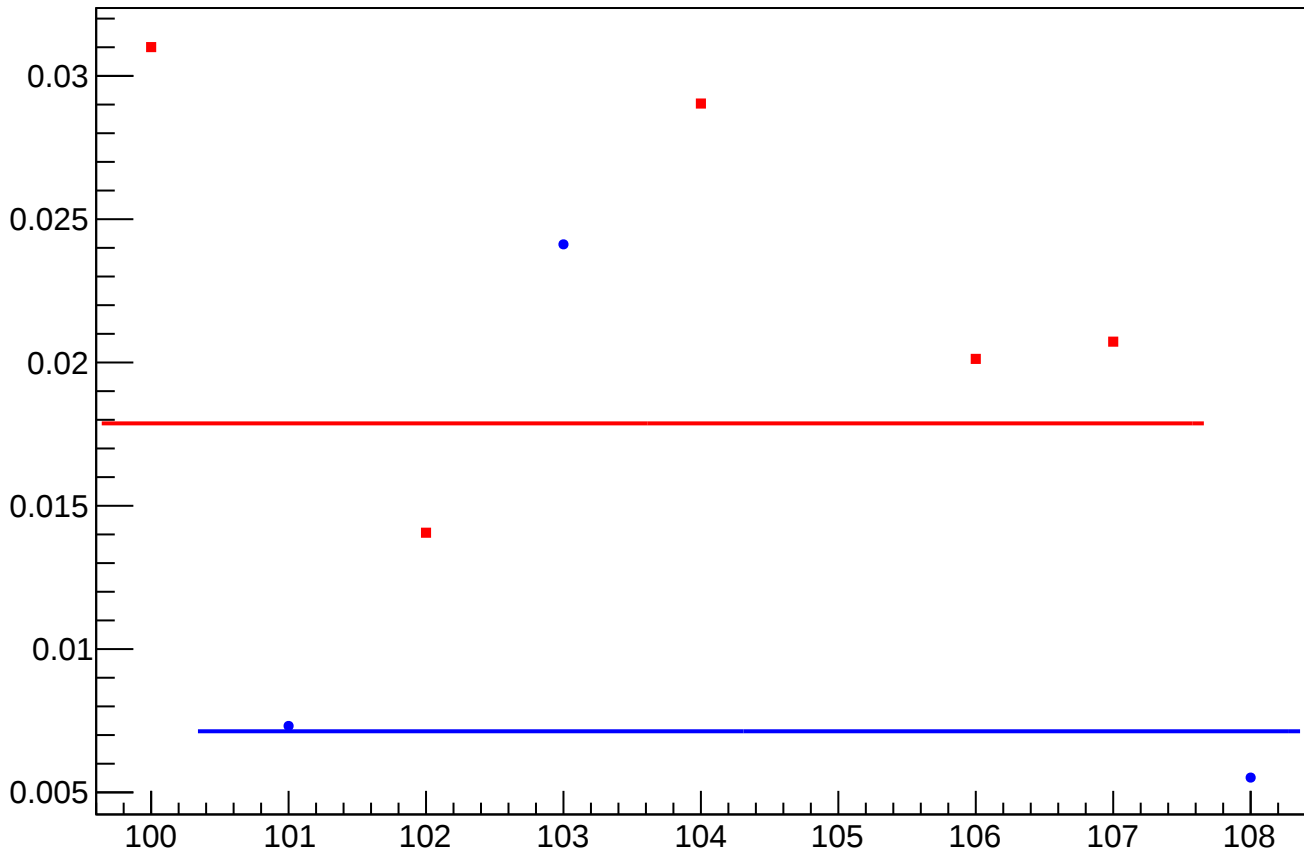
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.282+/-0.000  $\chi^2/\text{NDF}$ : 10571193111.8/8

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cX\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 512152.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 239519.0/4

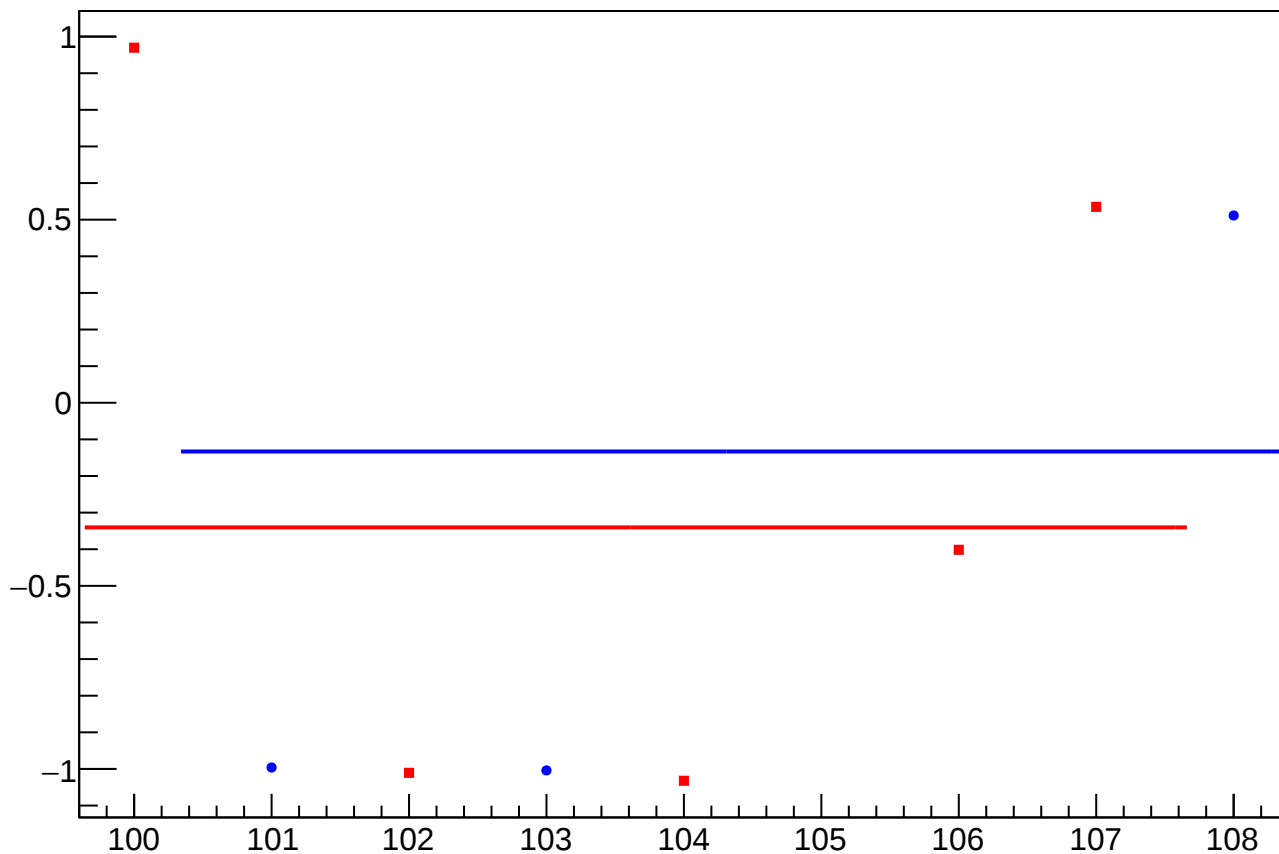
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 1608916.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cY\_mean vs Slug



Right In: -0.133+/-0.000  $\chi^2/\text{NDF}$ : 3420701009.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.340+/-0.000  $\chi^2/\text{NDF}$ : 993805975.4/4

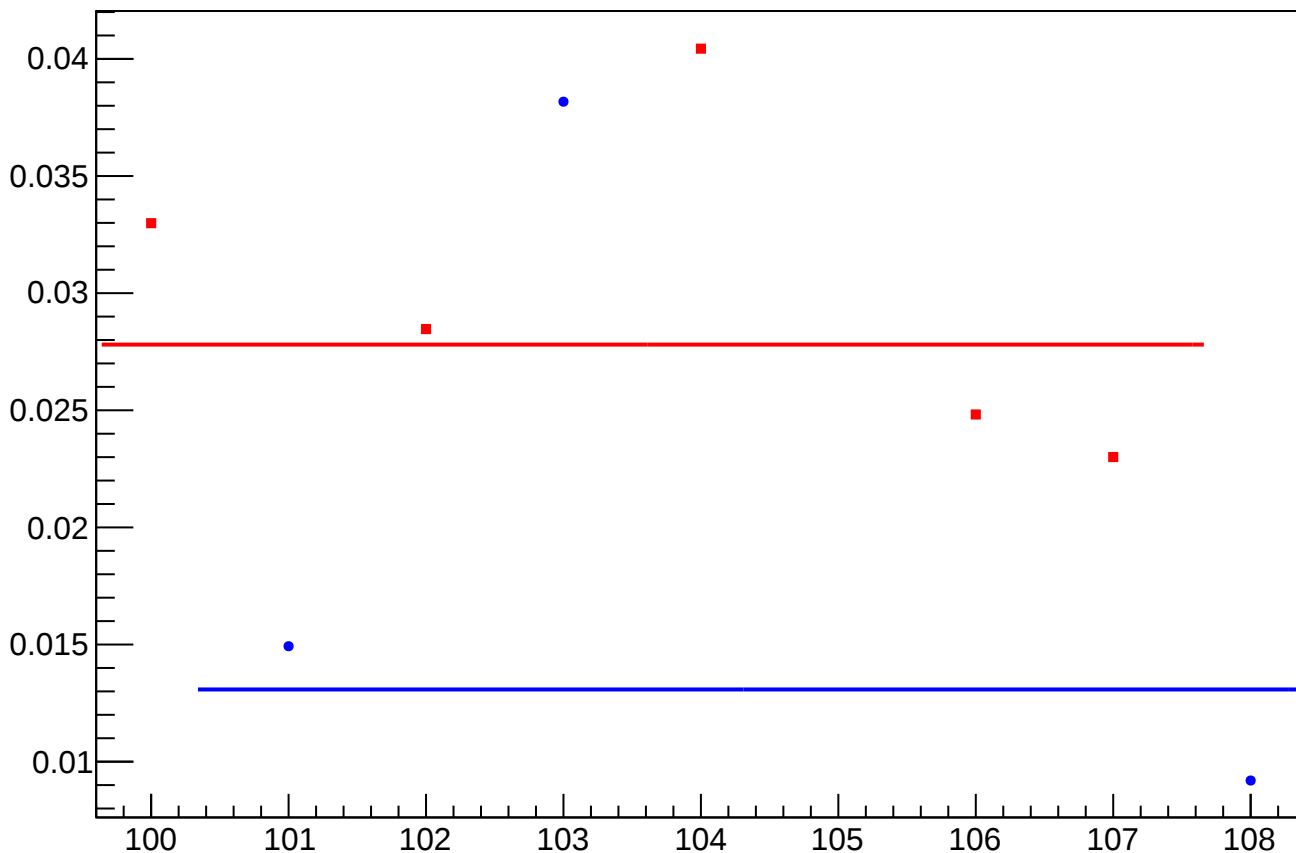
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.183+/-0.000  $\chi^2/\text{NDF}$ : 4478649834.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cY\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 600145.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.028+/-0.000  $\chi^2/\text{NDF}$ : 126488.3/4

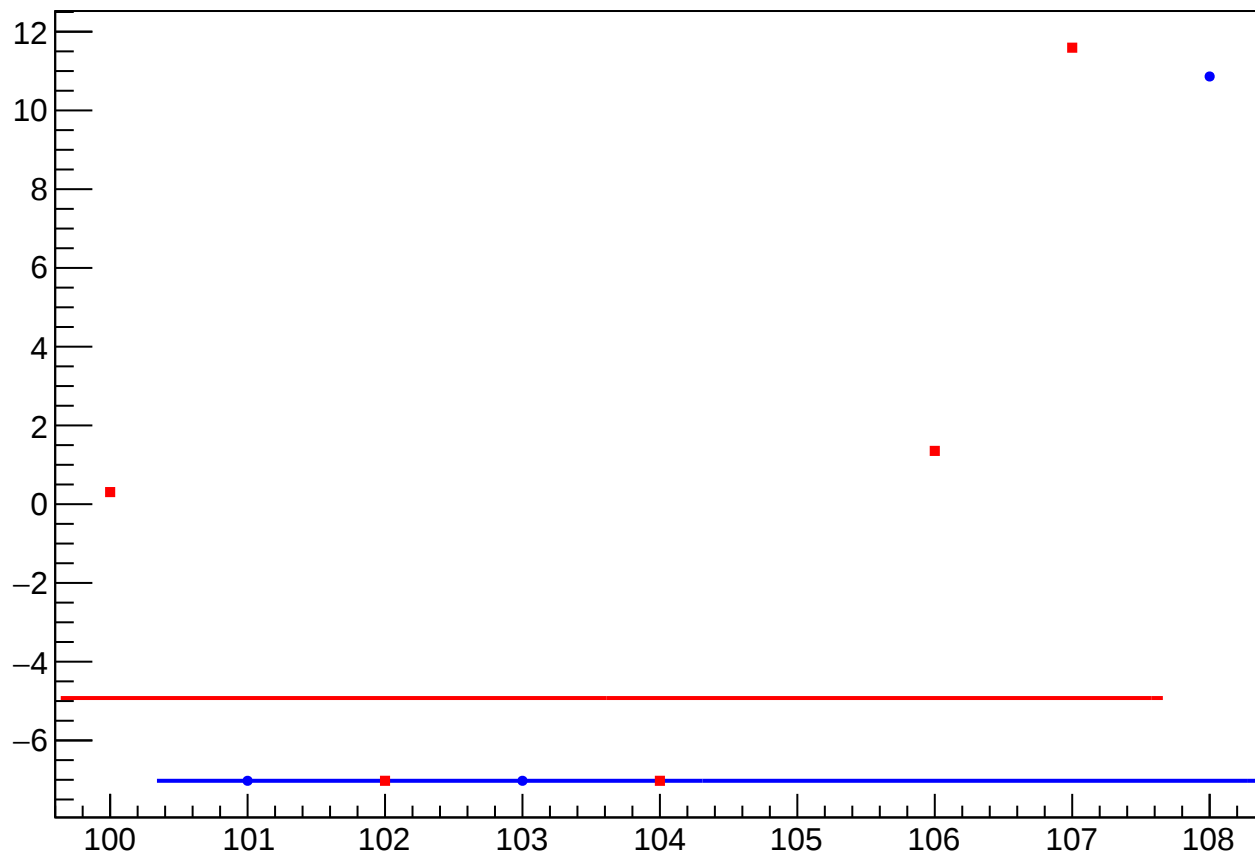
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 1374048.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dX\_mean vs Slug



Right In: -7.025+/-0.000  $\chi^2/\text{NDF}$ : 36933701552.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.923+/-0.000  $\chi^2/\text{NDF}$ : 364074556960187.9/4

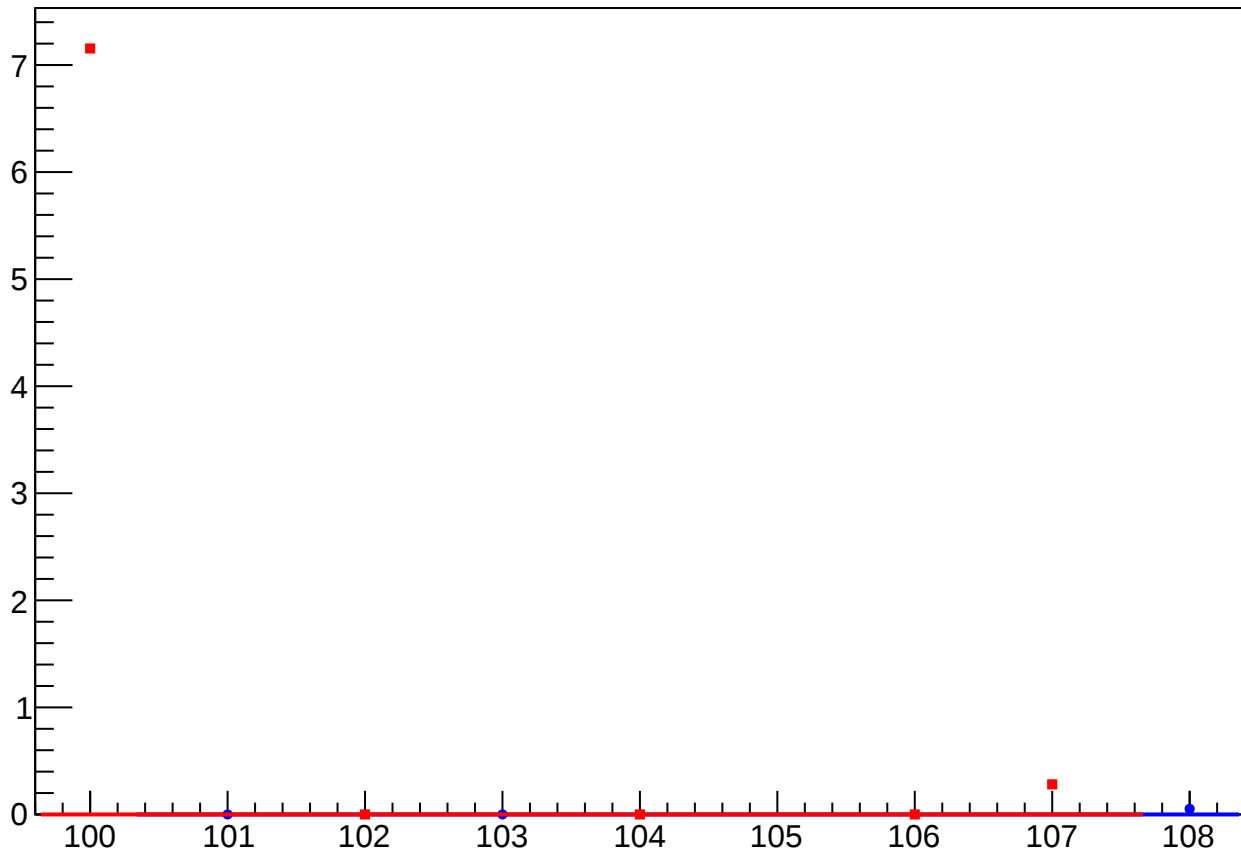
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.926+/-0.000  $\chi^2/\text{NDF}$ : 4222648547907

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dX\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 627194.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 646750.3/4

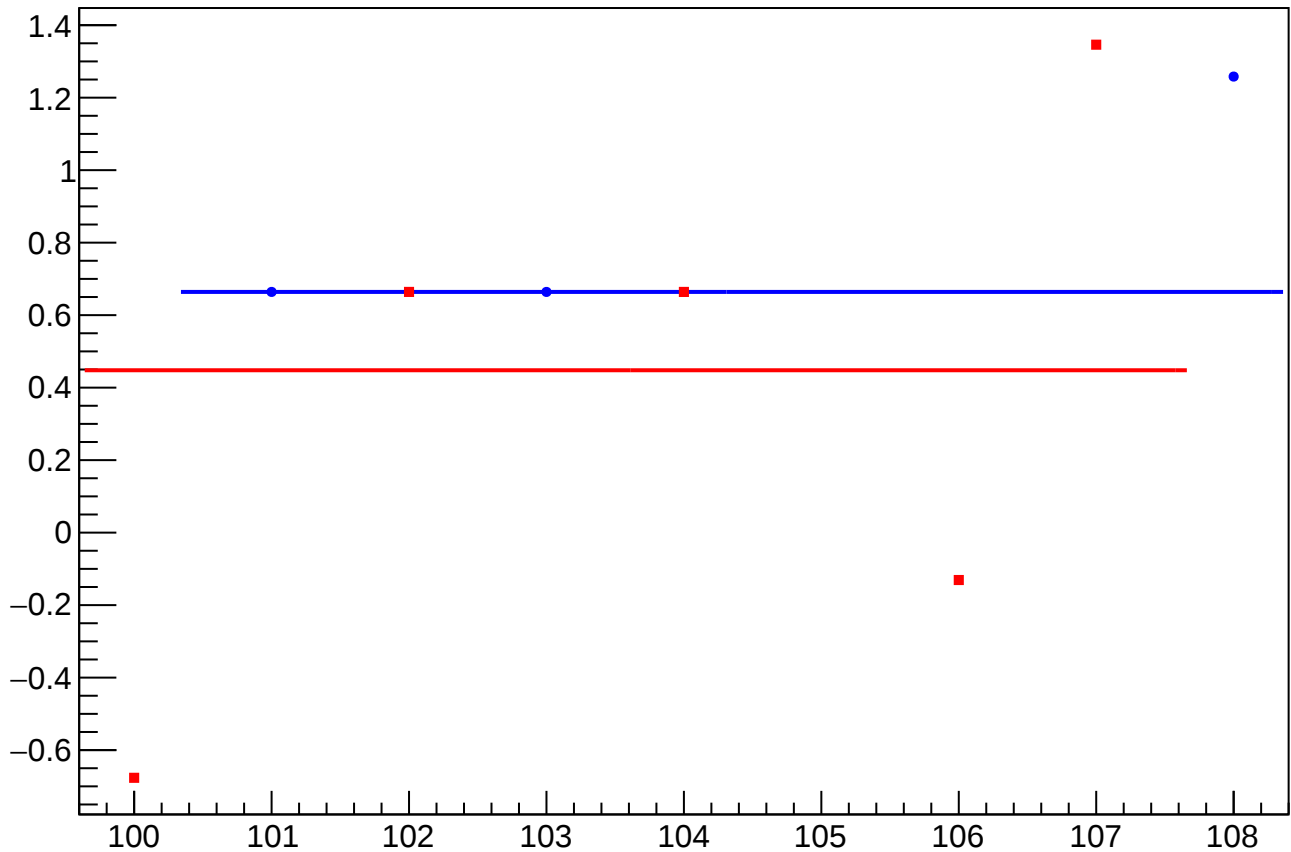
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1273960.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dY\_mean vs Slug



Right In: 0.664 $\pm$ 0.000  $\chi^2$ /NDF: 2078761088.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.448 $\pm$ 0.000  $\chi^2$ /NDF: 402866314764413.7/4

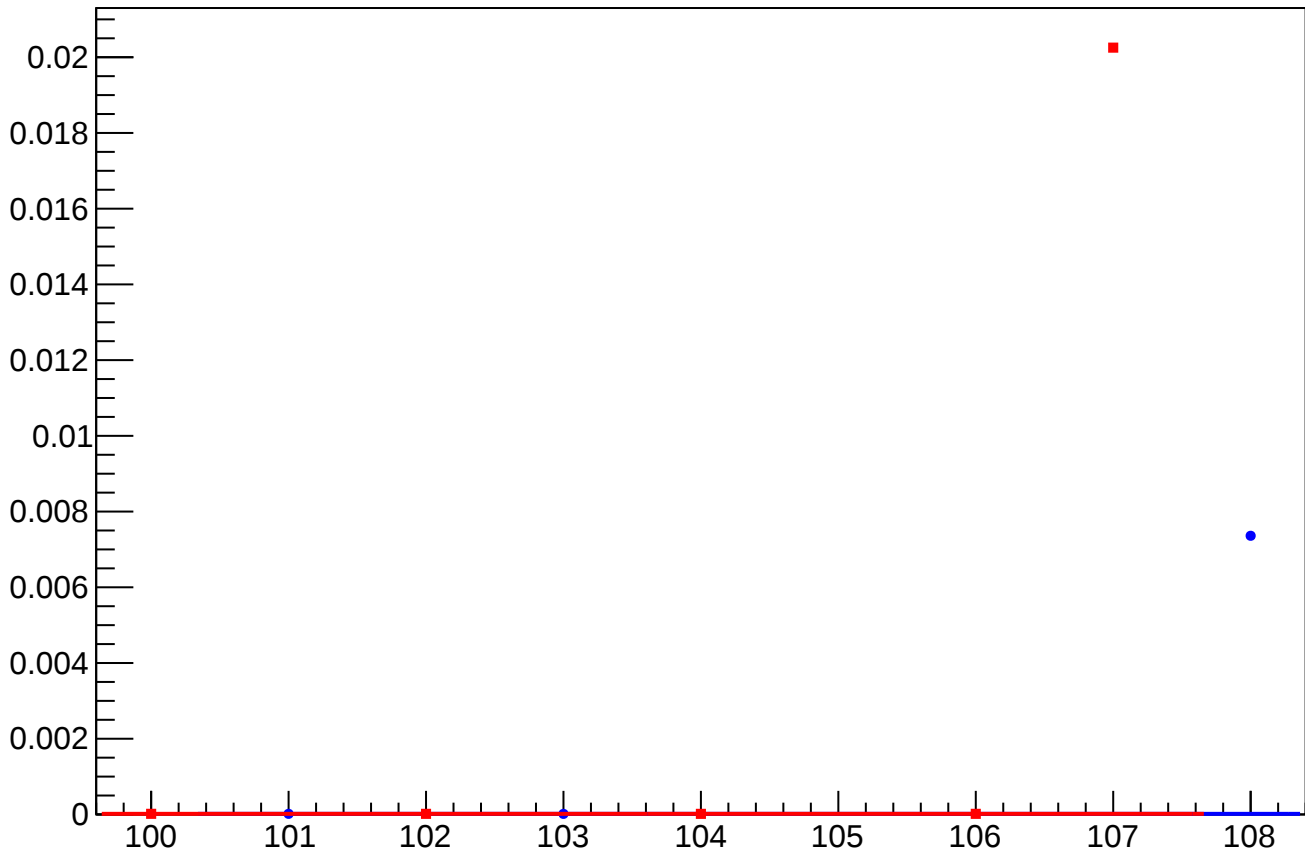
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.551 $\pm$ 0.000  $\chi^2$ /NDF: 46626875815875

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4dY\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 636105.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 373705.2/4

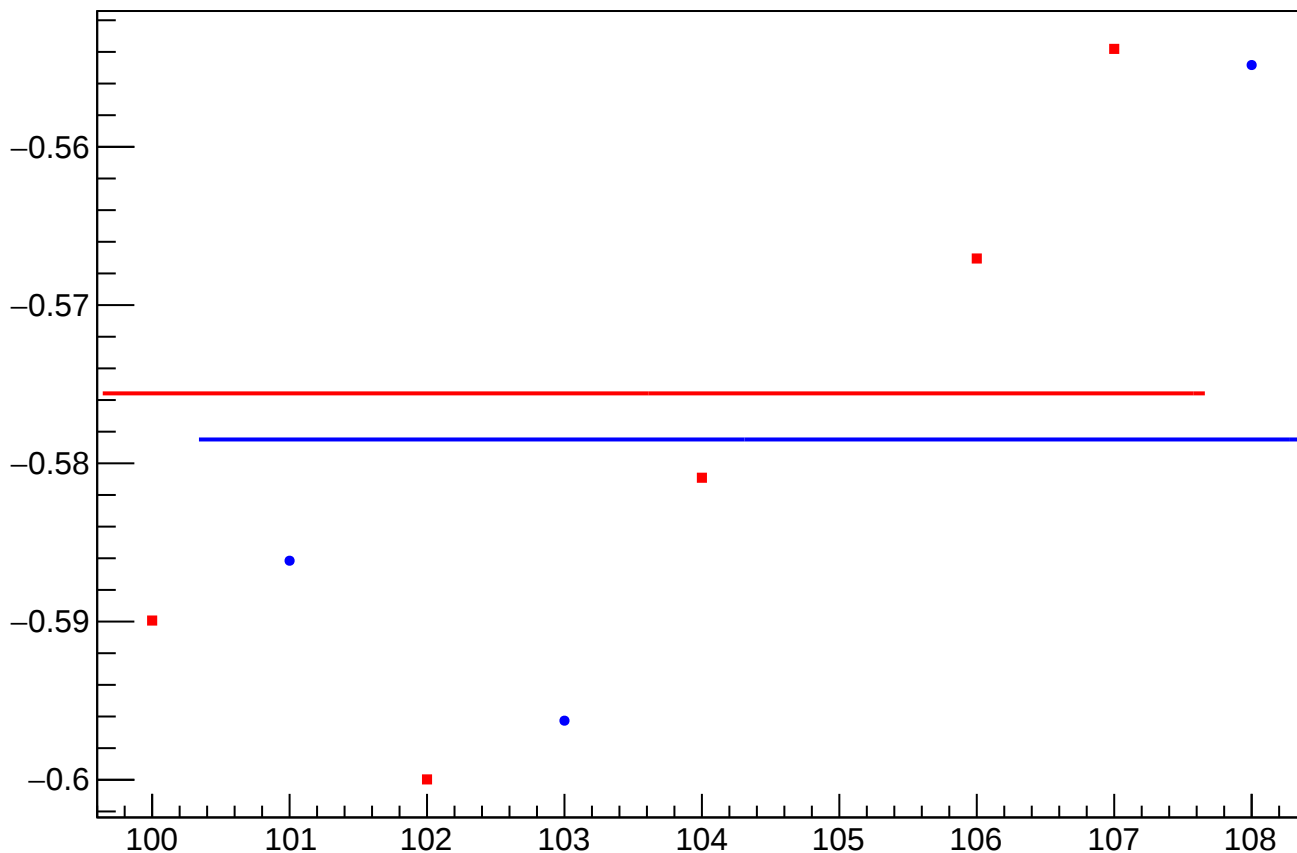
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 1010041.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aX\_mean vs Slug



Right In: -0.578+/-0.000  $\chi^2/\text{NDF}$ : 194907.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.576+/-0.000  $\chi^2/\text{NDF}$ : 176143.6/4

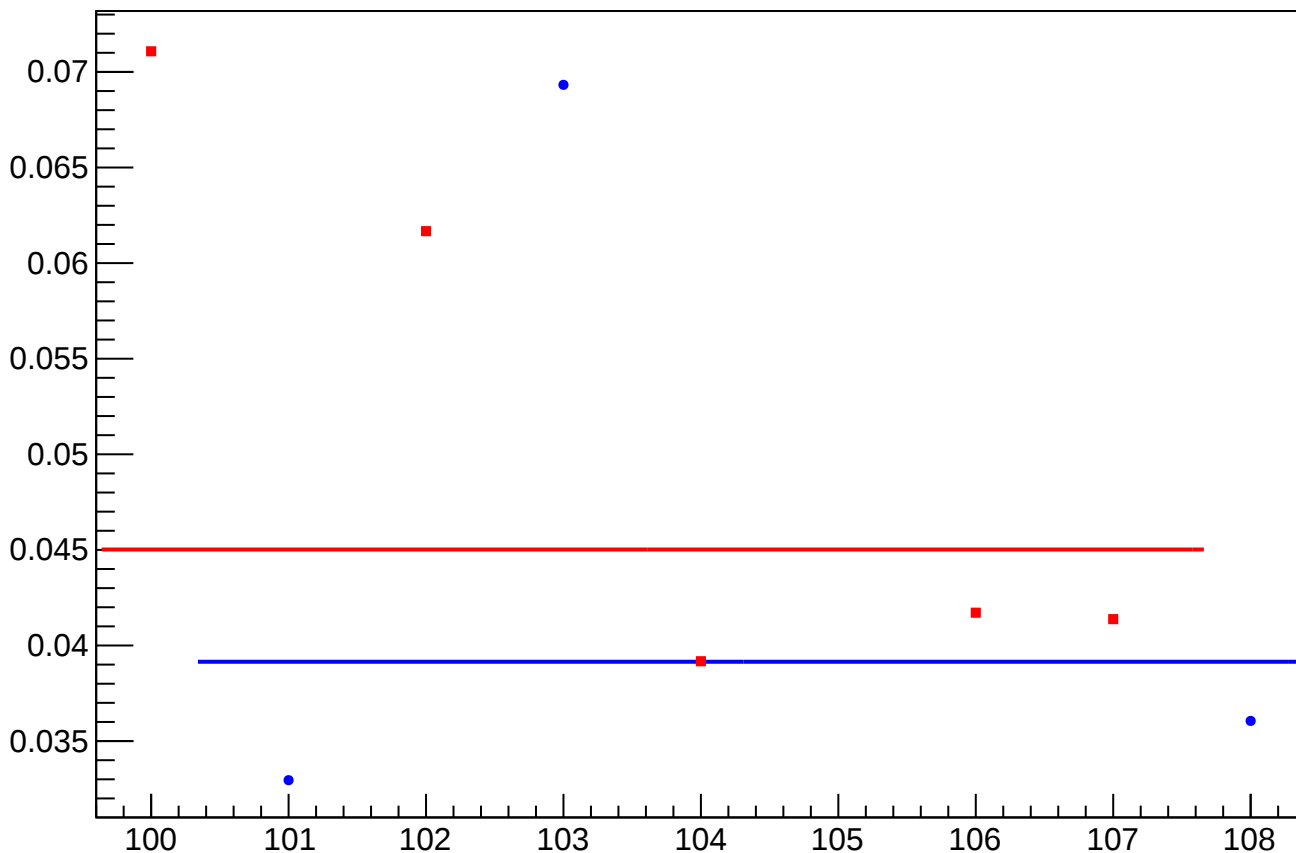
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.577+/-0.000  $\chi^2/\text{NDF}$ : 374209.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aX\_rms vs Slug



Right In: 0.039+/-0.000  $\chi^2/\text{NDF}$ : 252396.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.045+/-0.000  $\chi^2/\text{NDF}$ : 115371.4/4

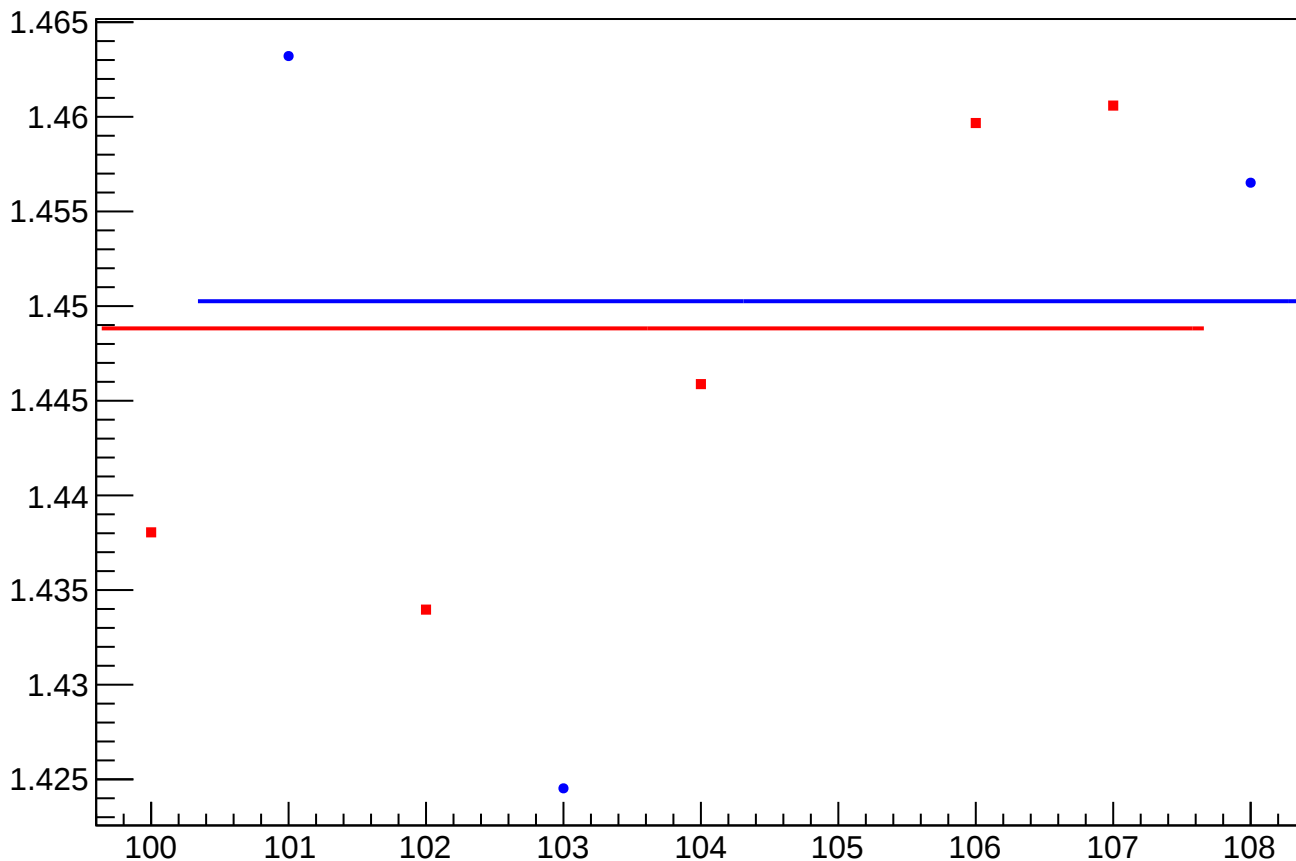
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.042+/-0.000  $\chi^2/\text{NDF}$ : 393424.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aY\_mean vs Slug



Right In: 1.450 $\pm$ 0.000  $\chi^2$ /NDF: 1549771.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.449 $\pm$ 0.000  $\chi^2$ /NDF: 659896.8/4

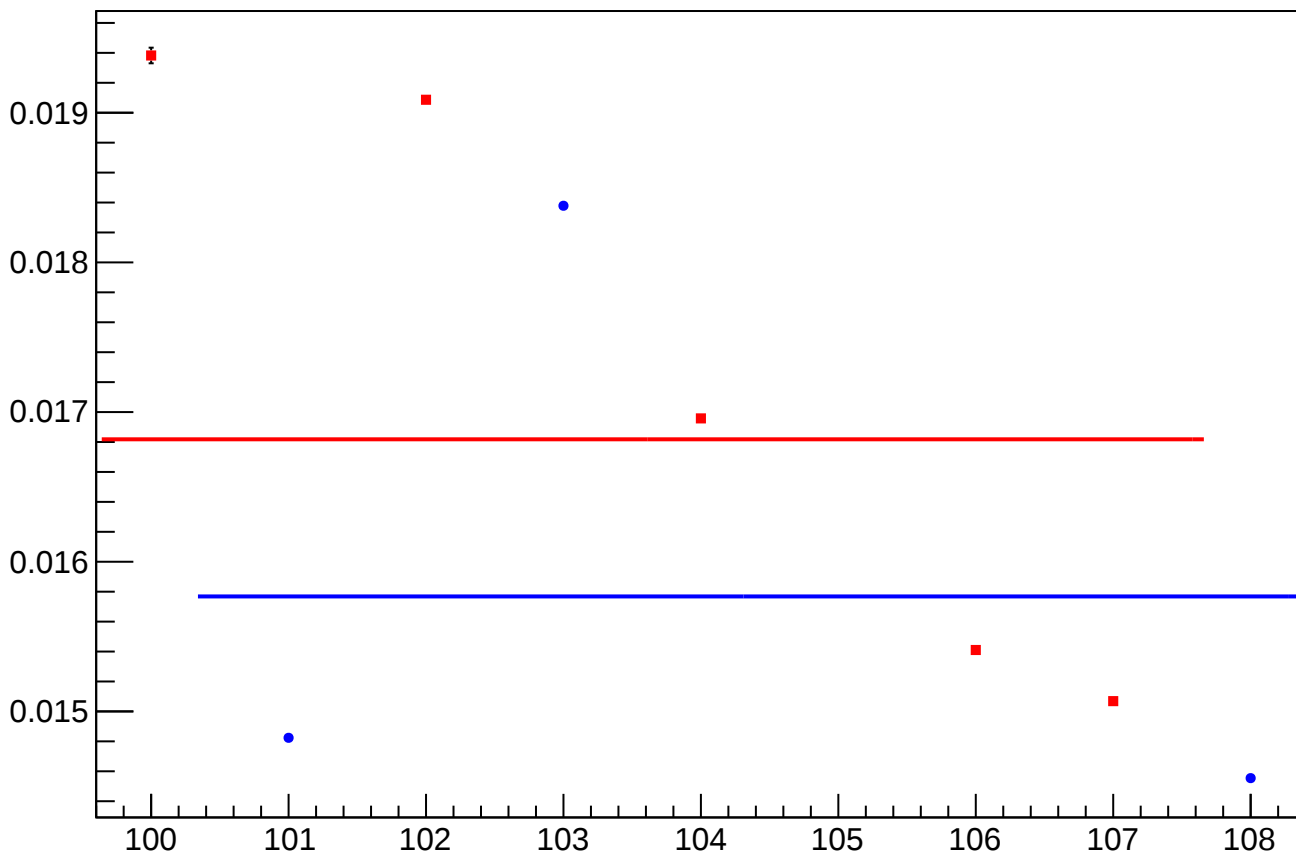
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.450 $\pm$ 0.000  $\chi^2$ /NDF: 2215481.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm4aY\_rms vs Slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 31146.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 29527.3/4

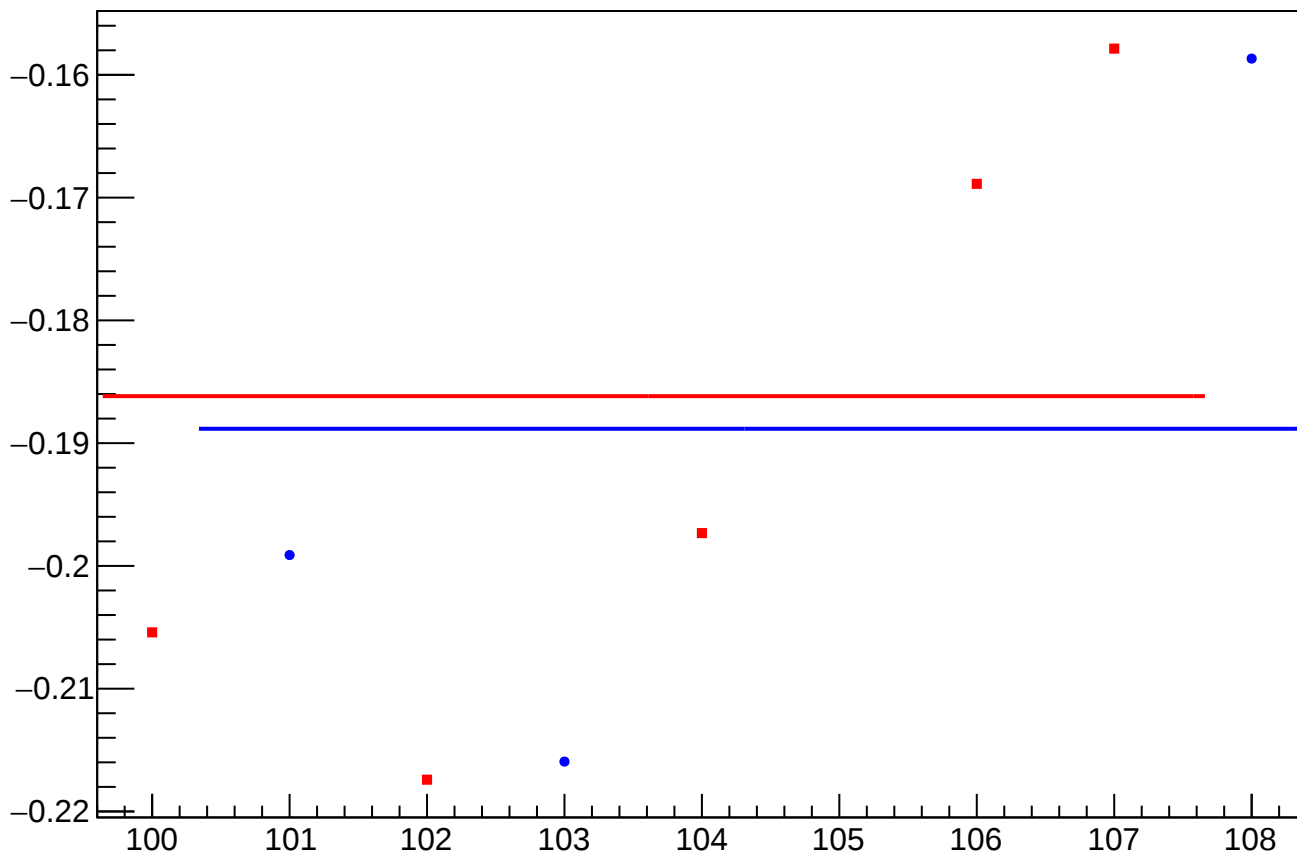
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 66892.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_bpm4eX\_mean vs Slug



Right In: -0.189+/-0.000  $\chi^2/\text{NDF}$ : 341141.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.186+/-0.000  $\chi^2/\text{NDF}$ : 324672.5/4

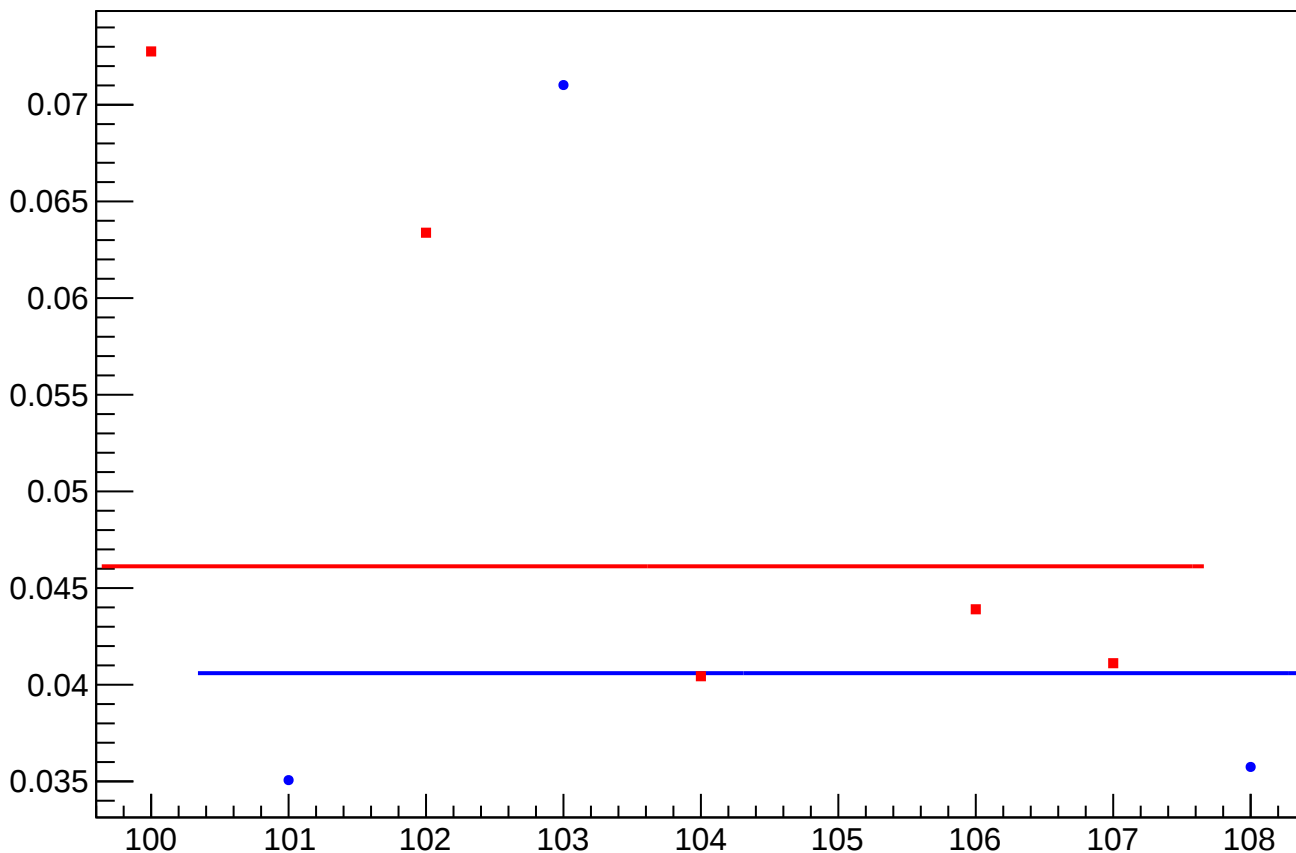
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.188+/-0.000  $\chi^2/\text{NDF}$ : 668298.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eX\_rms vs Slug



Right In: 0.041+/-0.000  $\chi^2/\text{NDF}$ : 242230.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.046+/-0.000  $\chi^2/\text{NDF}$ : 117080.3/4

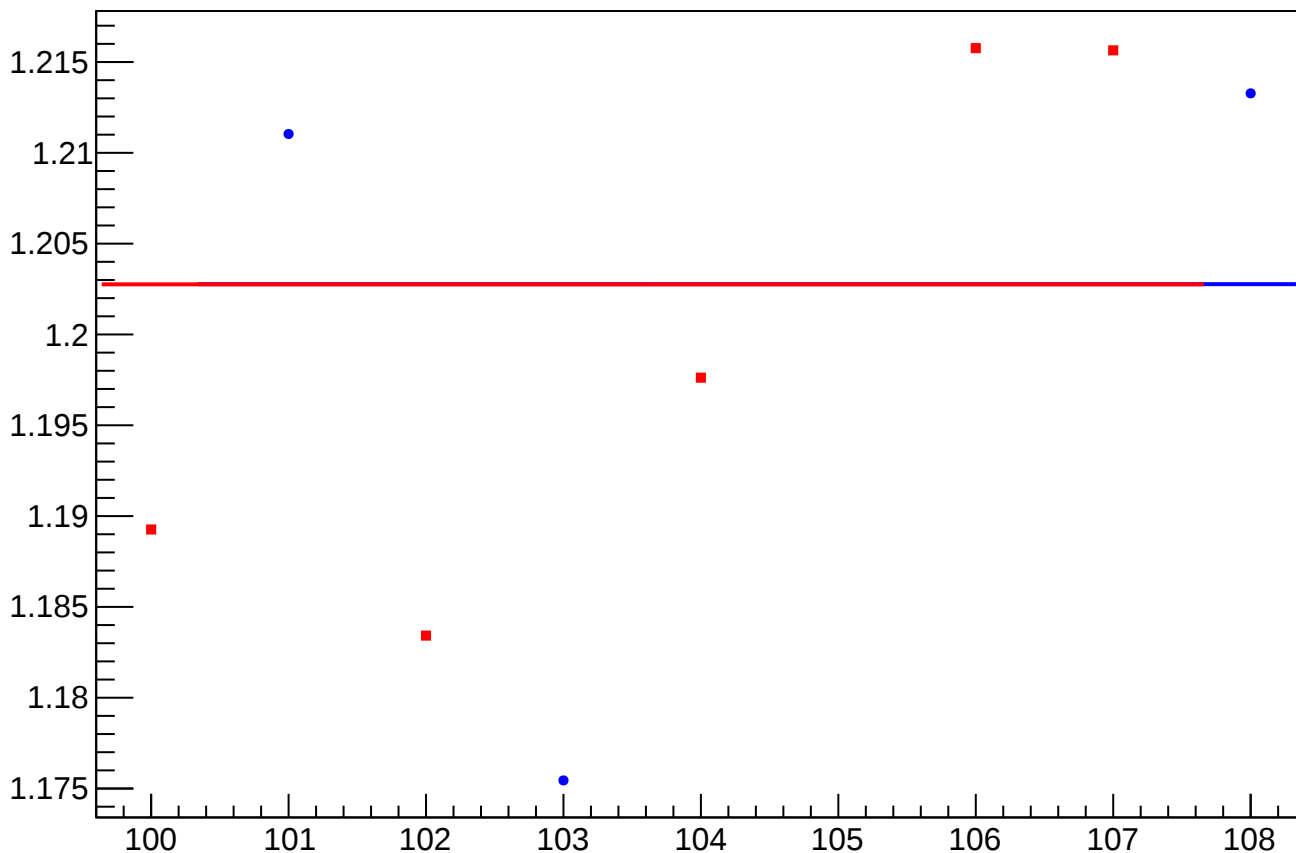
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.043+/-0.000  $\chi^2/\text{NDF}$ : 380825.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eY\_mean vs Slug



Right In: 1.203+/-0.000  $\chi^2/\text{NDF}$ : 2153081.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.203+/-0.000  $\chi^2/\text{NDF}$ : 1469453.4/4

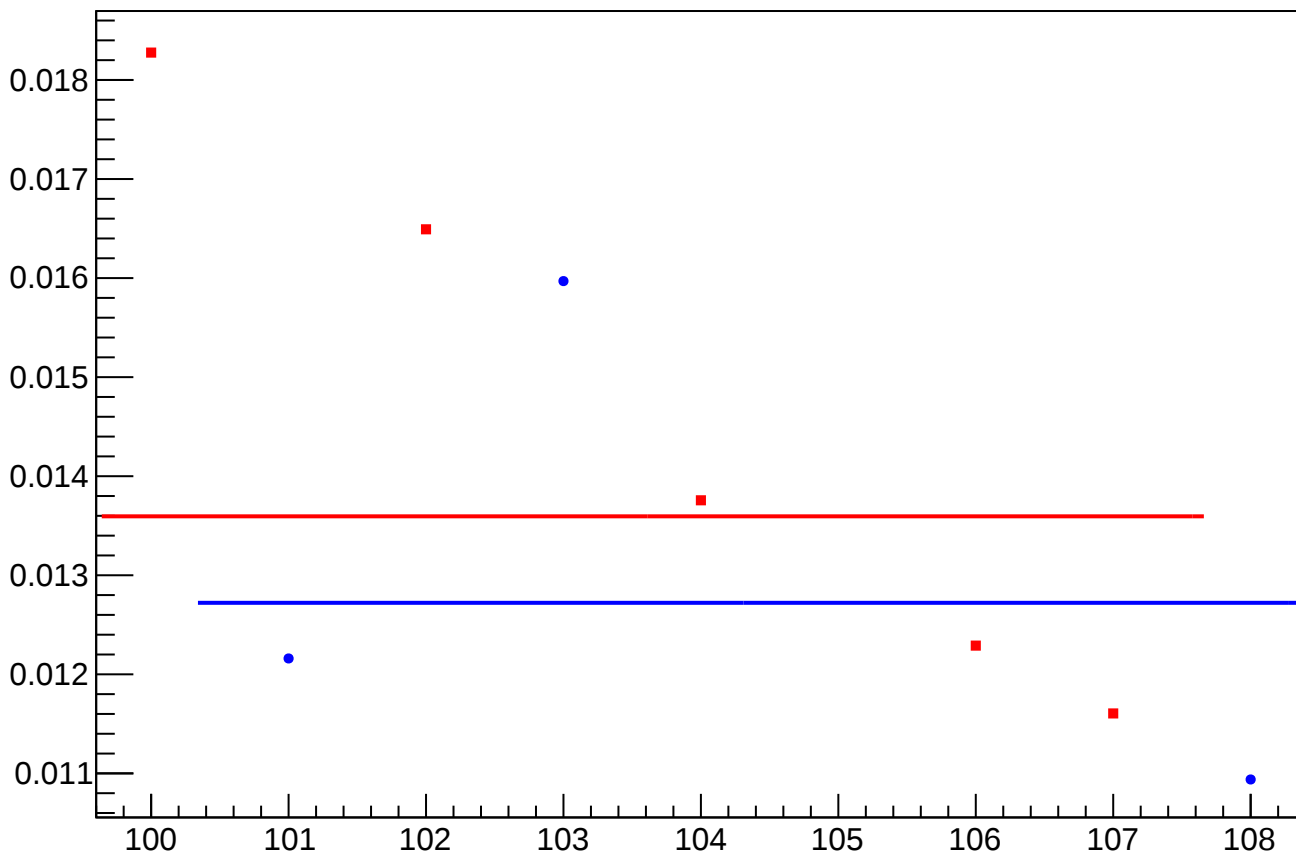
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.203+/-0.000  $\chi^2/\text{NDF}$ : 3622535.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eY\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 65289.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 64686.7/4

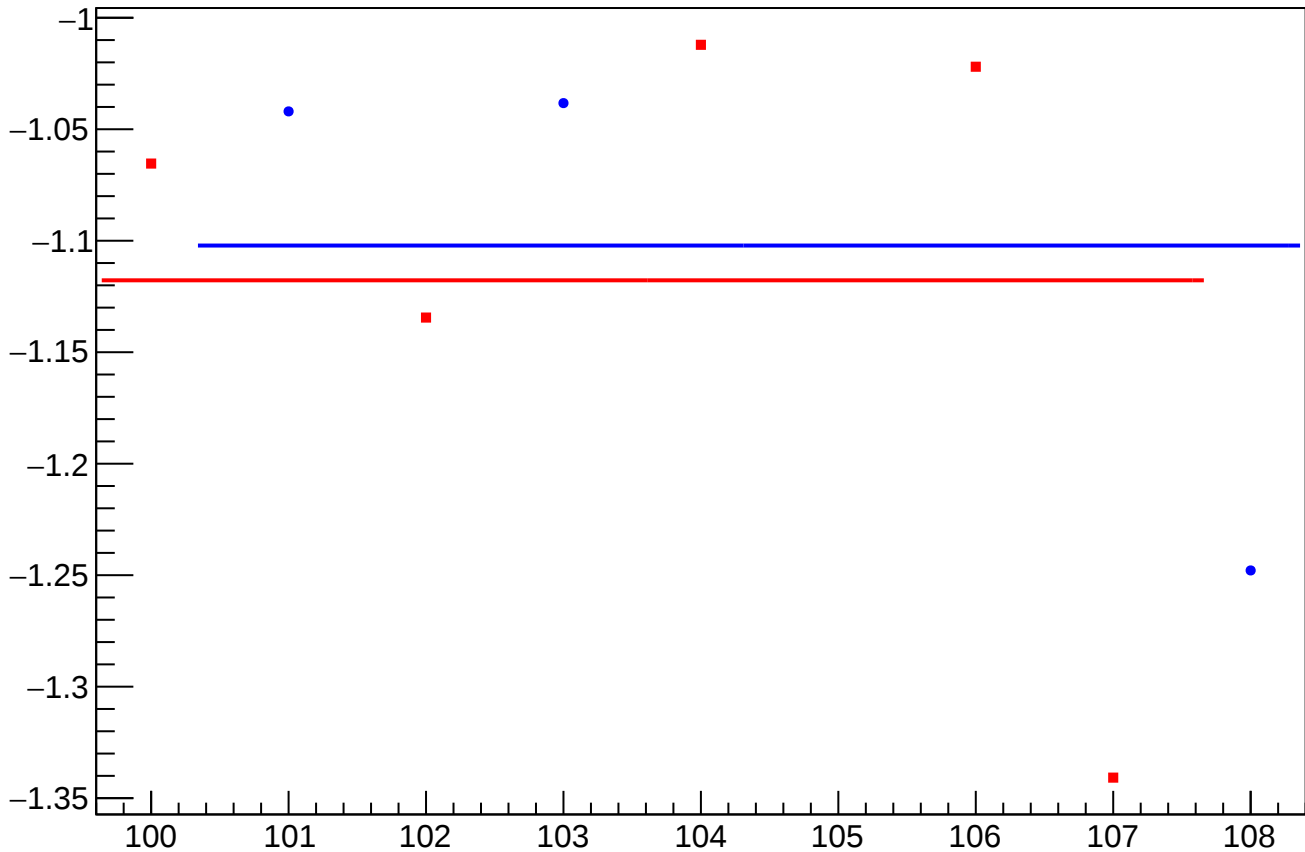
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 136433.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acX\_mean vs Slug



Right In: -1.102+/-0.000  $\chi^2/\text{NDF}$ : 7176374.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.118+/-0.000  $\chi^2/\text{NDF}$ : 12928933.1/4

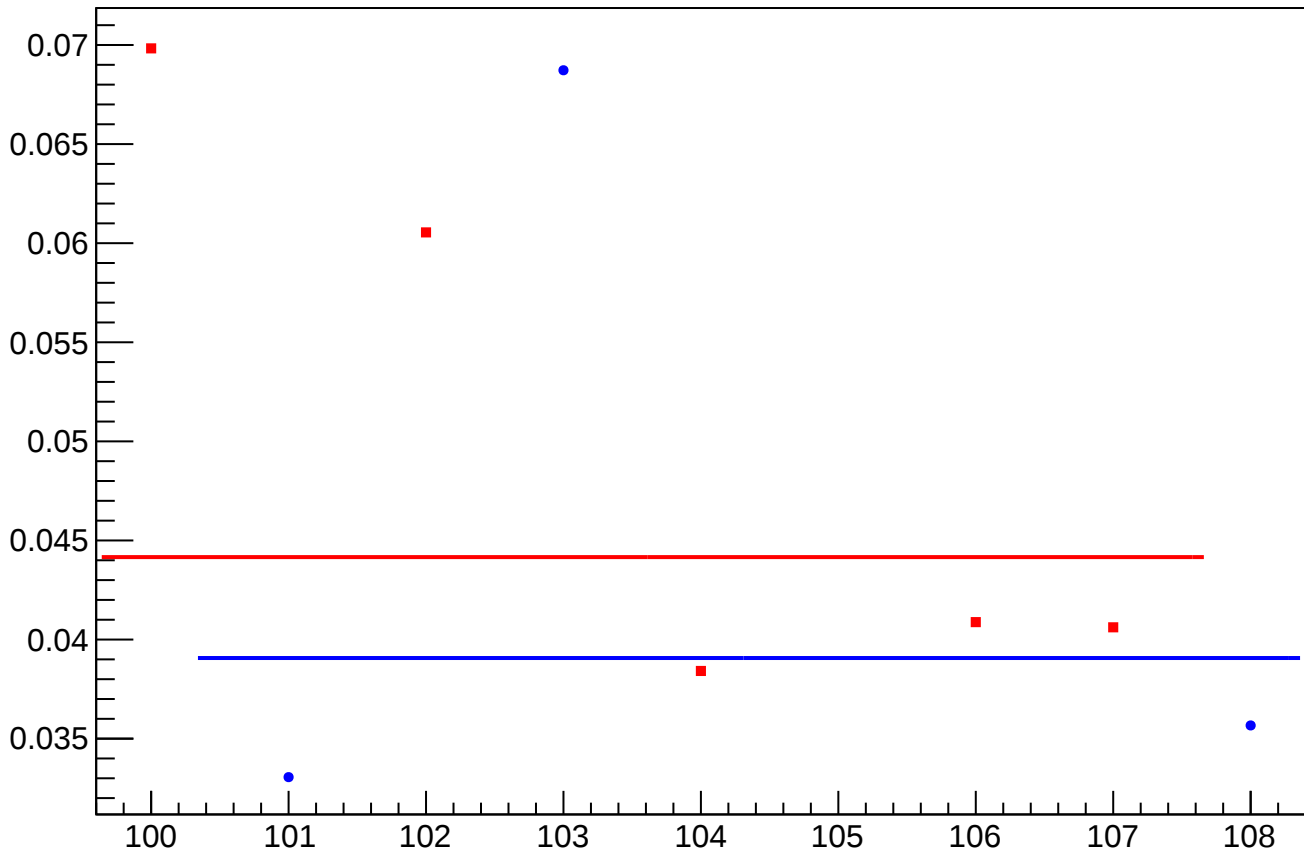
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.110+/-0.000  $\chi^2/\text{NDF}$ : 20197853.2/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acX\_rms vs Slug



Right In: 0.039 $\pm$ 0.000  $\chi^2$ /NDF: 246972.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.044 $\pm$ 0.000  $\chi^2$ /NDF: 115842.1/4

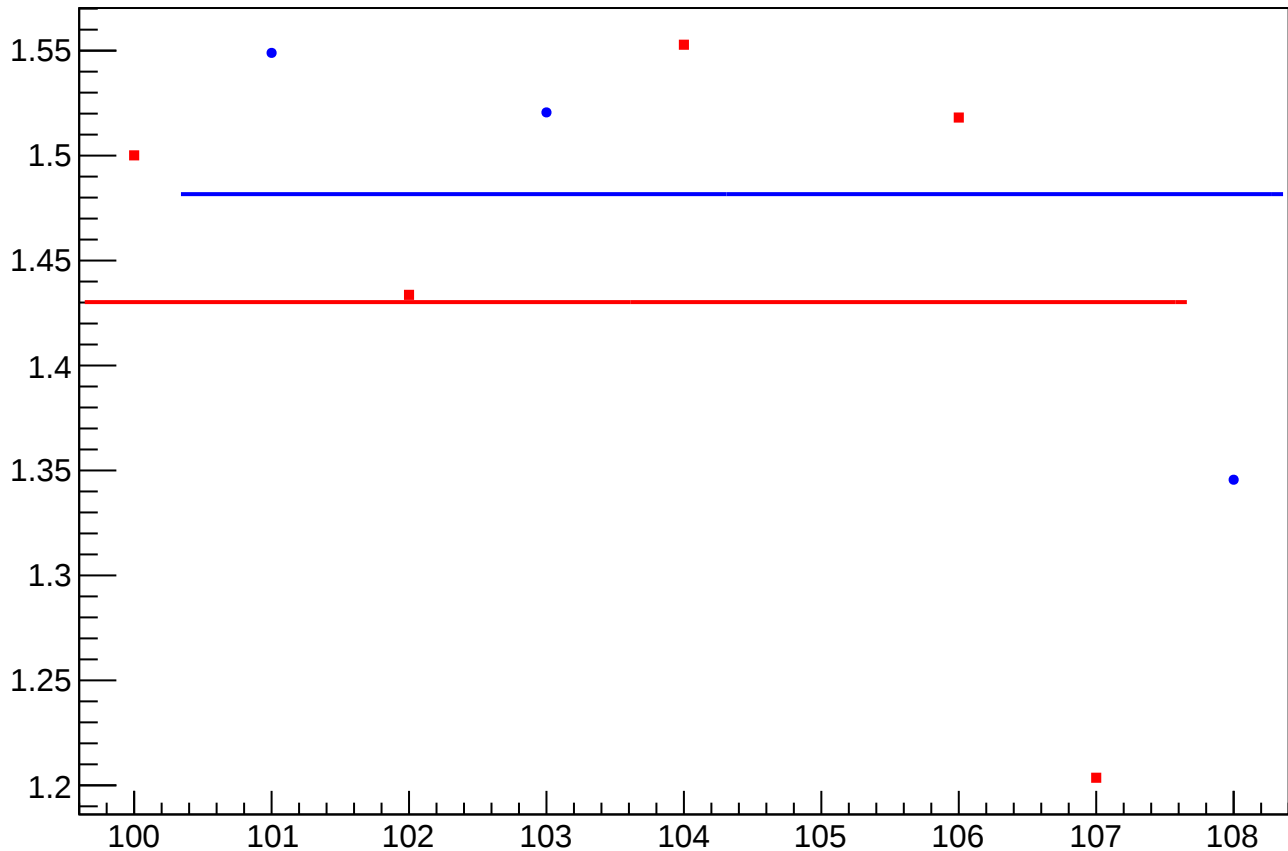
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.041 $\pm$ 0.000  $\chi^2$ /NDF: 382544.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm4acY\_mean vs Slug



Right In: 1.482+/-0.000  $\chi^2/\text{NDF}$ : 38990321.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.430+/-0.000  $\chi^2/\text{NDF}$ : 101511504.2/4

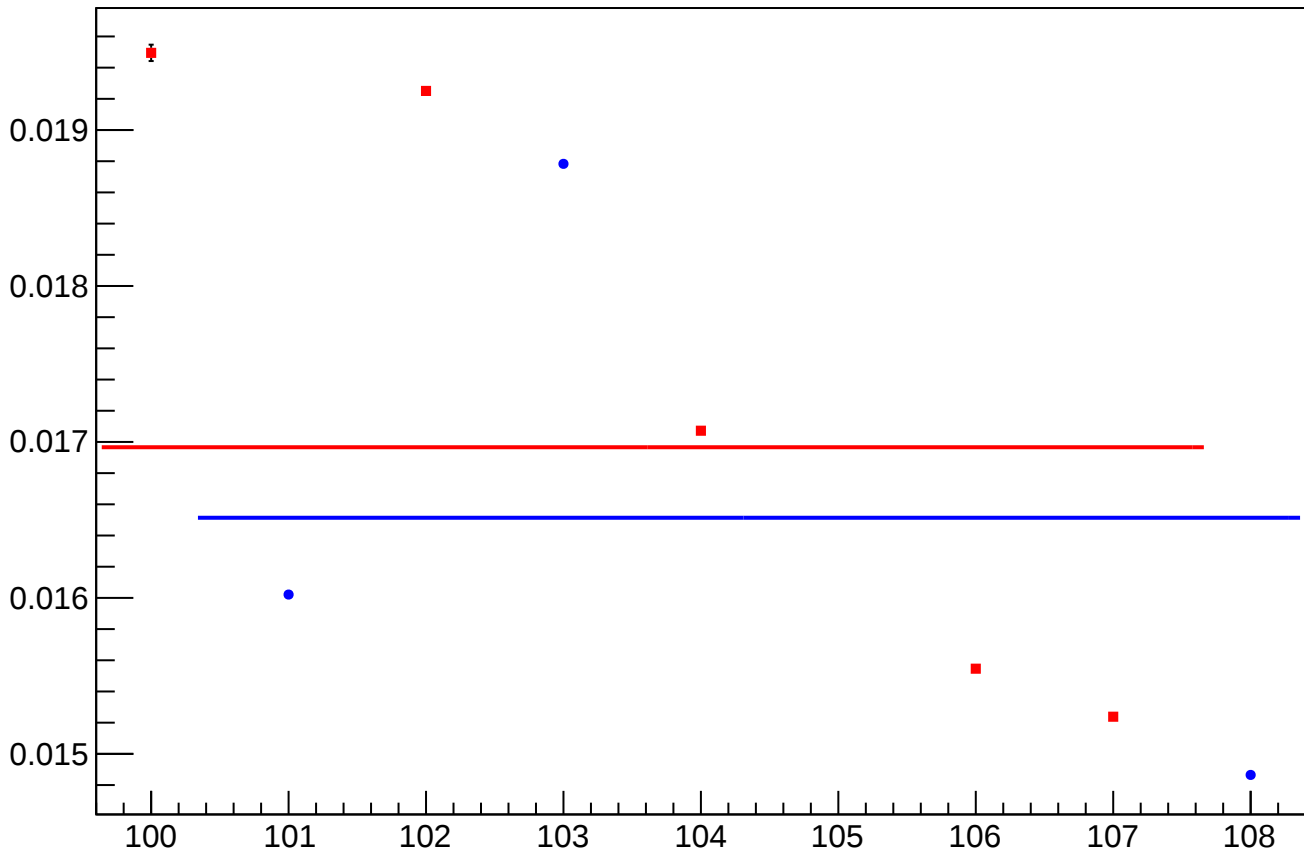
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.455+/-0.000  $\chi^2/\text{NDF}$ : 147507999.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acY\_rms vs Slug



Right In: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 24686.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 28983.5/4

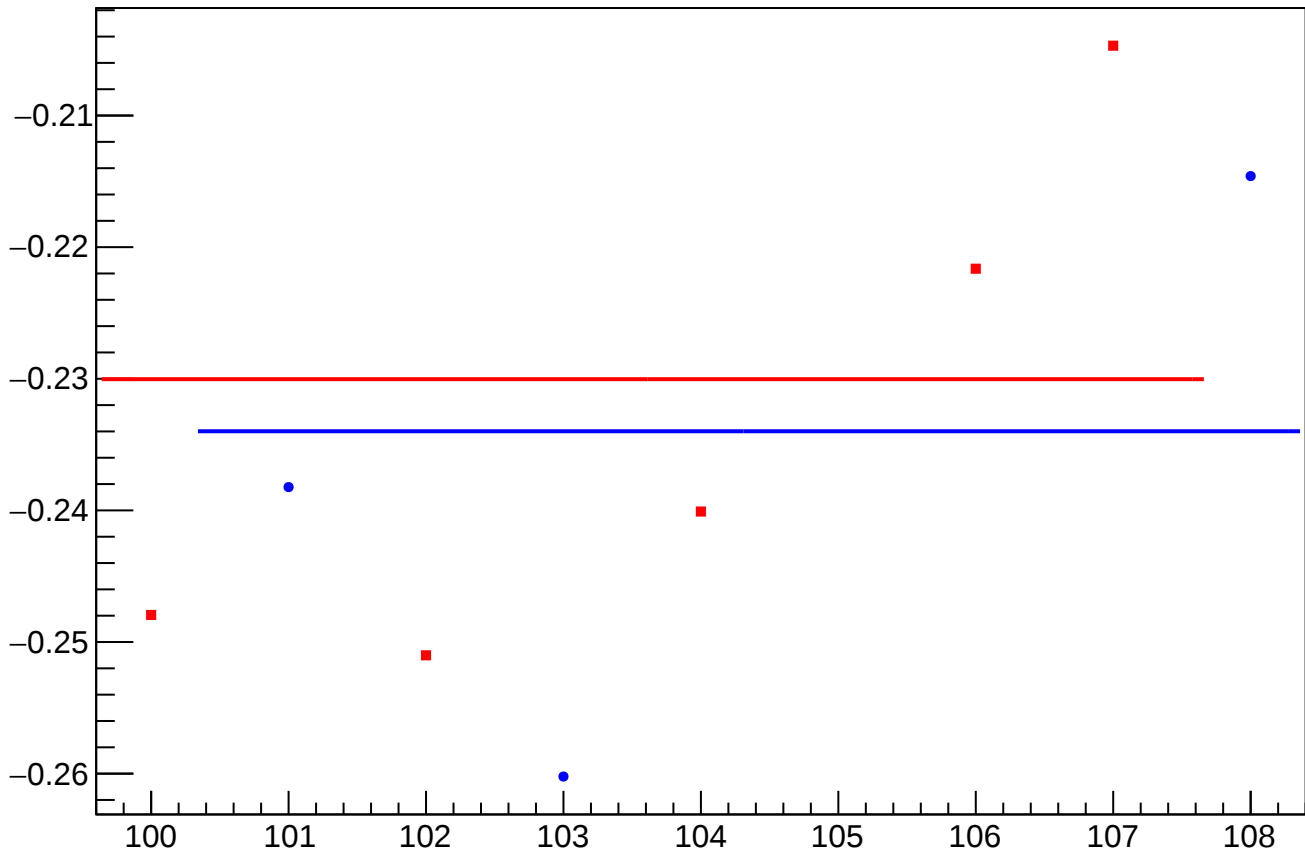
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 54752.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecX\_mean vs Slug



Right In: -0.234+/-0.000  $\chi^2/\text{NDF}$ : 169551.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.230+/-0.000  $\chi^2/\text{NDF}$ : 193162.3/4

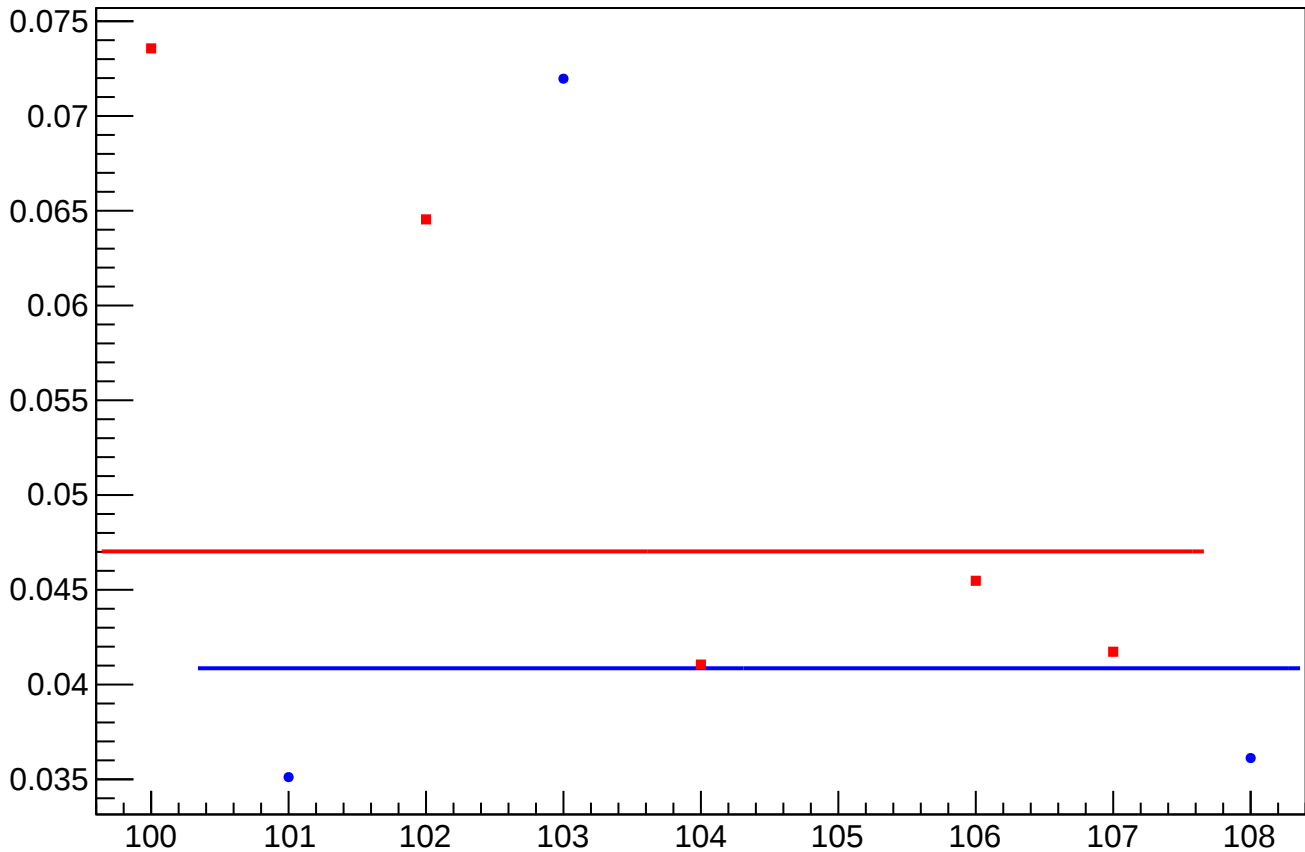
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.232+/-0.000  $\chi^2/\text{NDF}$ : 368067.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecX\_rms vs Slug



Right In: 0.041 $\pm$ 0.000  $\chi^2$ /NDF: 246661.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.047 $\pm$ 0.000  $\chi^2$ /NDF: 117615.6/4

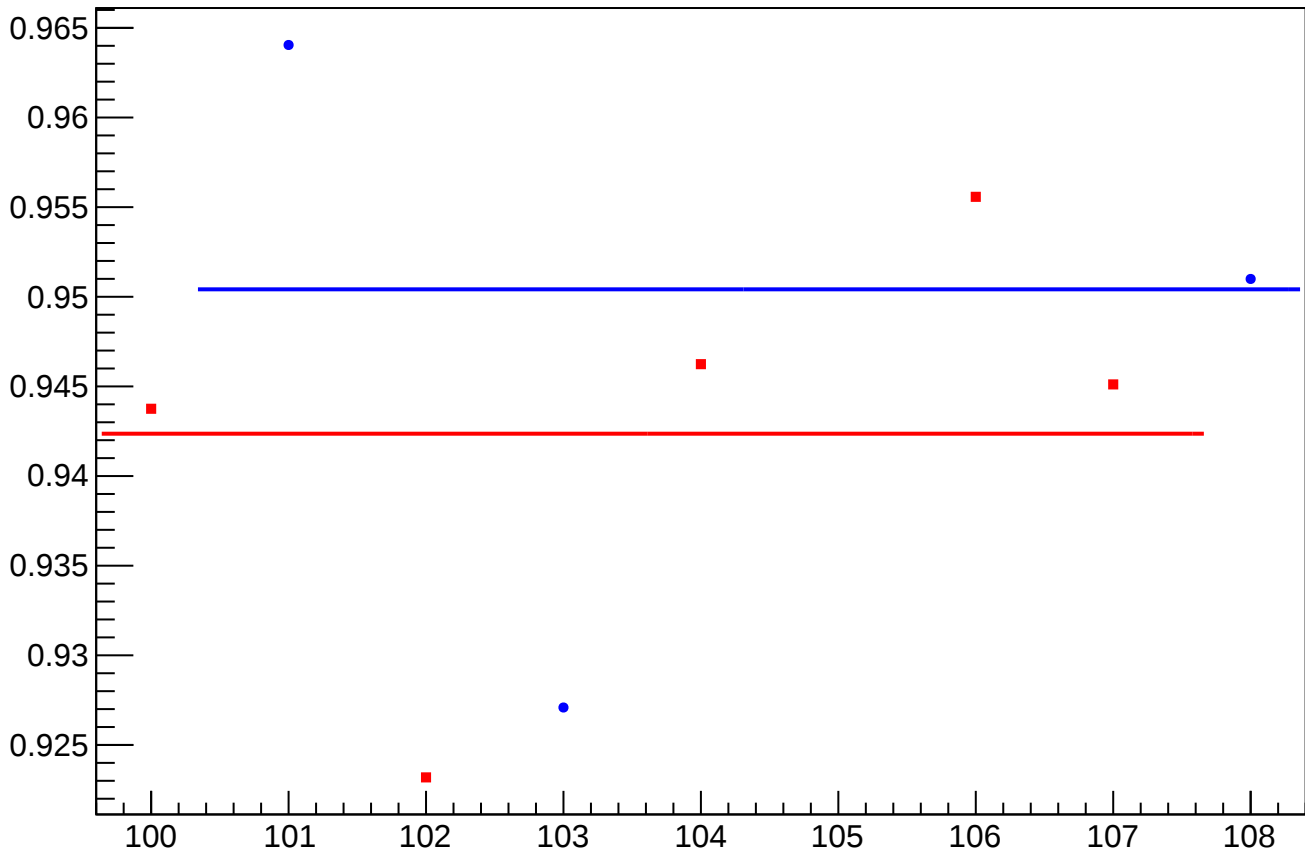
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.044 $\pm$ 0.000  $\chi^2$ /NDF: 390272.9/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm4ecY\_mean vs Slug



Right In: 0.950 $\pm$ 0.000  $\chi^2$ /NDF: 1789953.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.942 $\pm$ 0.000  $\chi^2$ /NDF: 1014157.6/4

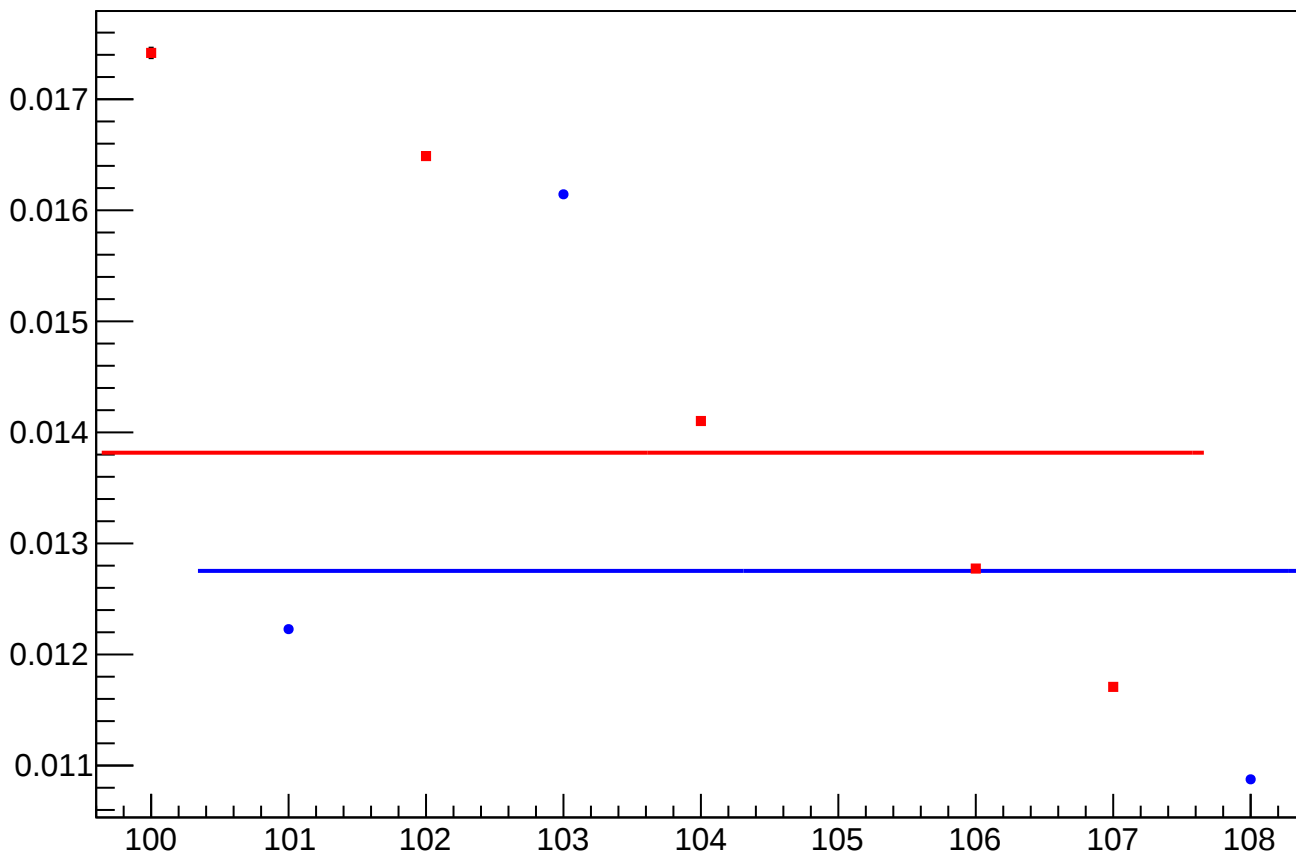
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.946 $\pm$ 0.000  $\chi^2$ /NDF: 3073942.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm4ecY\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 70143.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 56894.9/4

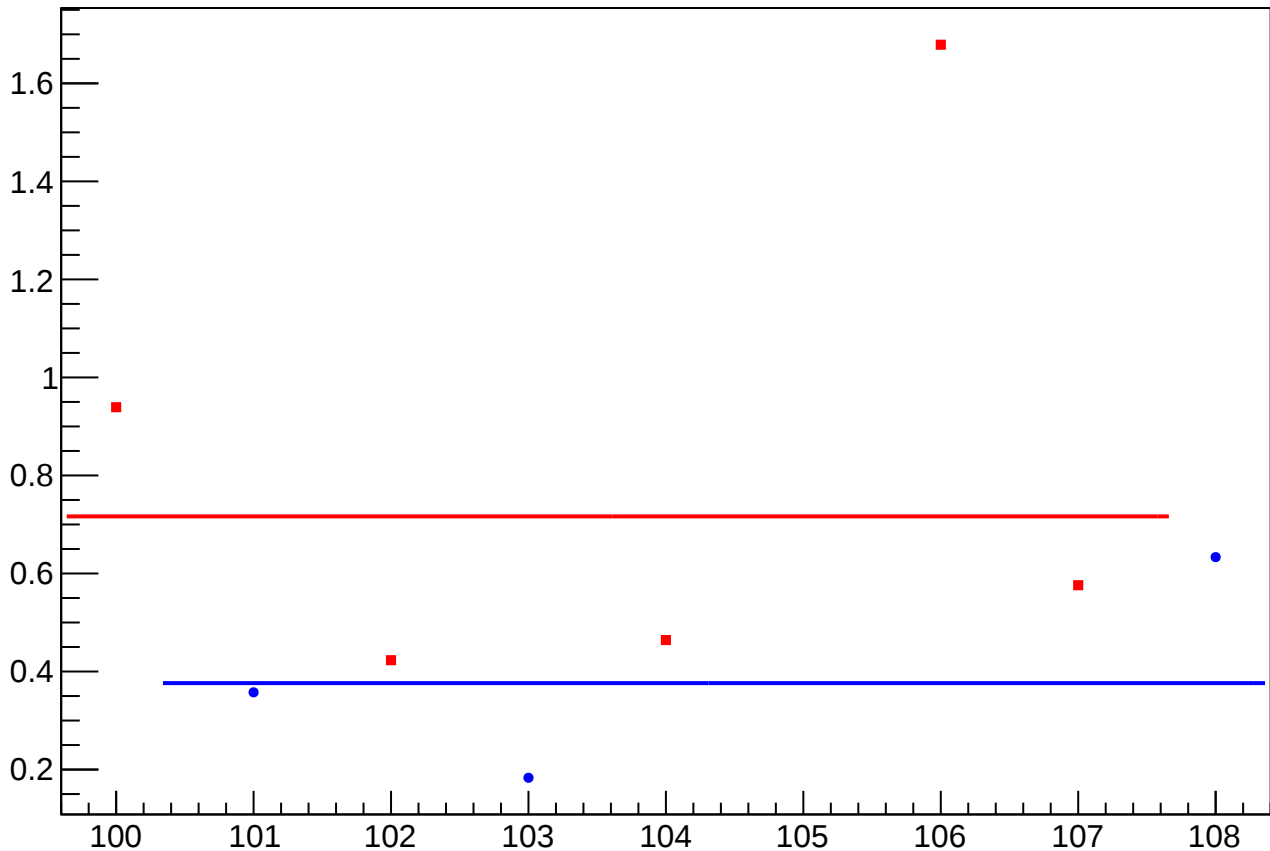
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 136465.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1X\_mean vs Slug



Right In: 0.376+/-0.000  $\chi^2/\text{NDF}$ : 17878272.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.716+/-0.000  $\chi^2/\text{NDF}$ : 195790632.1/4

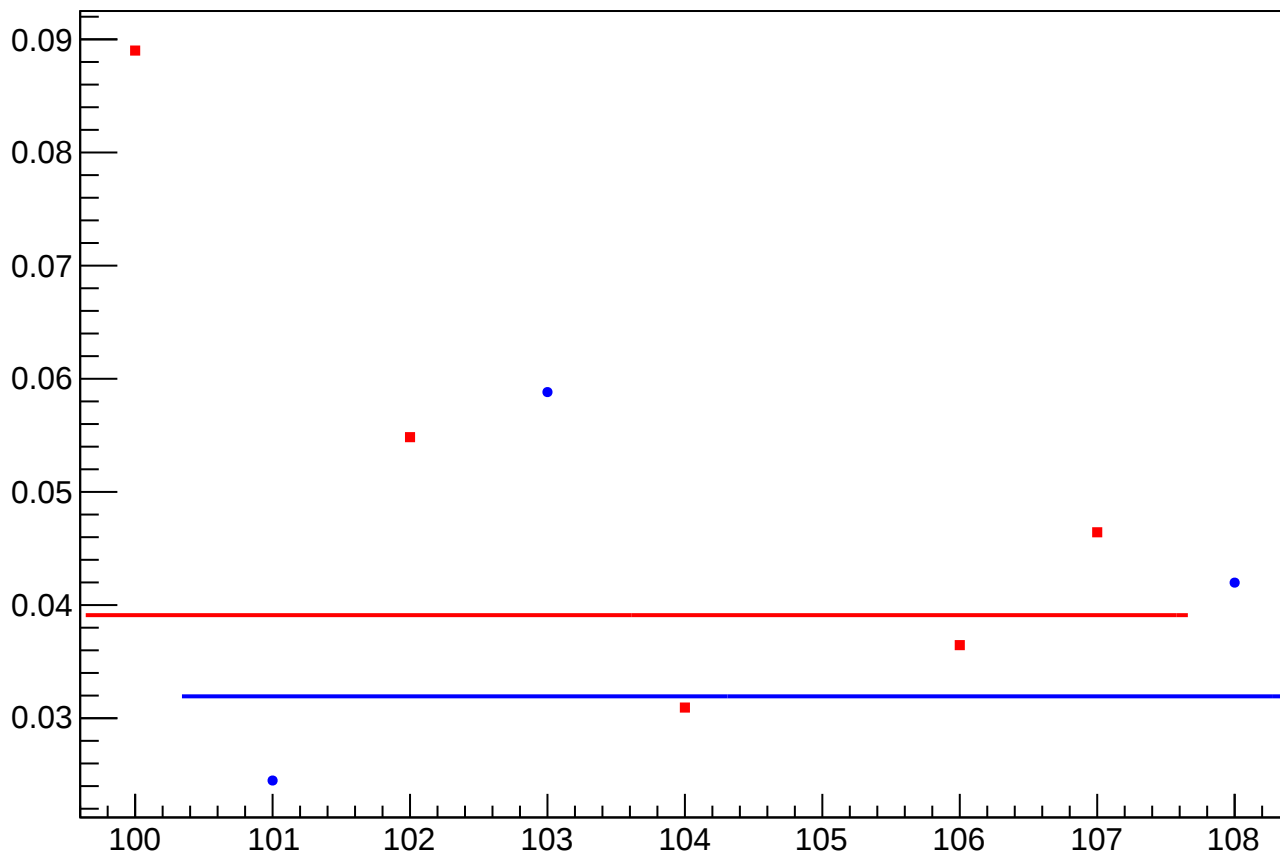
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.520+/-0.000  $\chi^2/\text{NDF}$ : 269410317.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1X\_rms vs Slug



Right In: 0.032 $\pm$ 0.000  $\chi^2$ /NDF: 353138.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.039 $\pm$ 0.000  $\chi^2$ /NDF: 185093.0/4

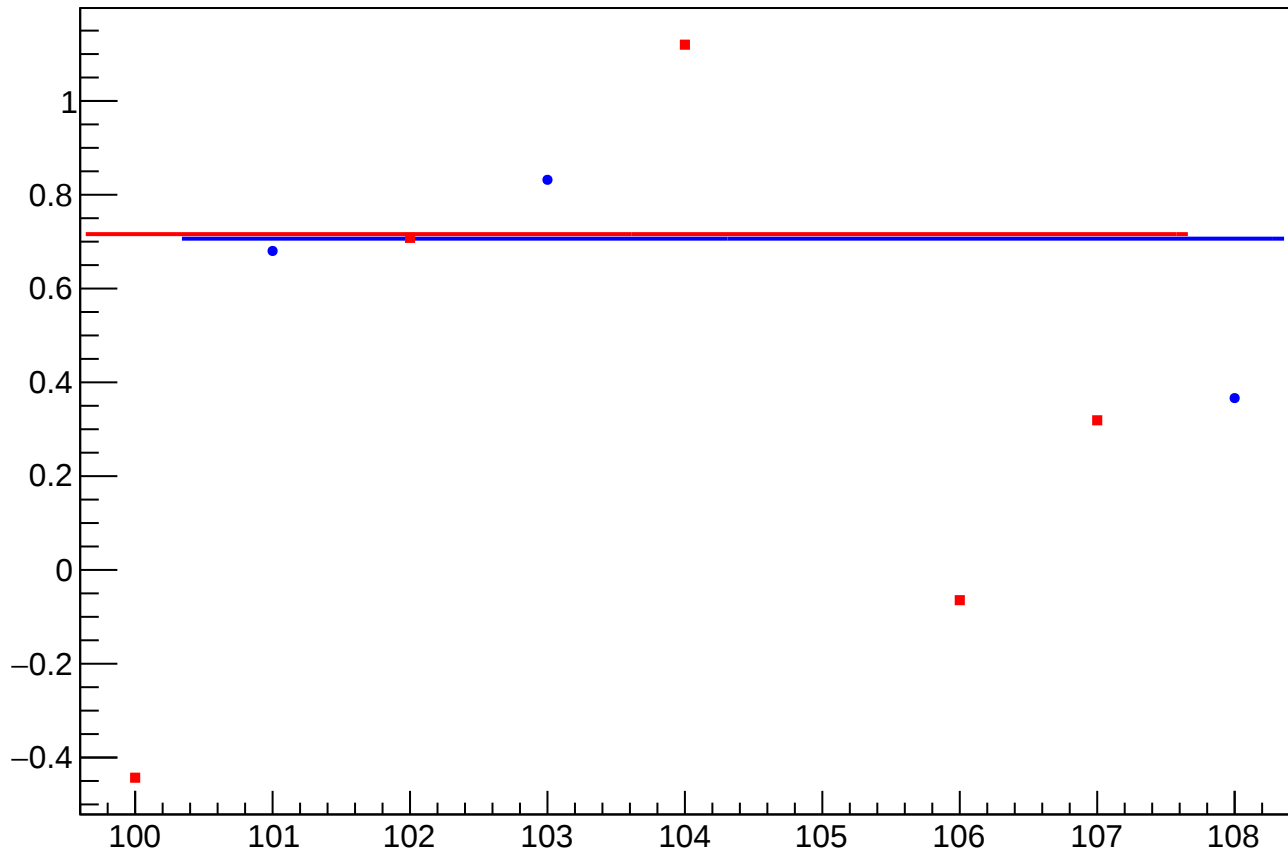
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.035 $\pm$ 0.000  $\chi^2$ /NDF: 587848.7/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1Y\_mean vs Slug



Right In: 0.706+/-0.000  $\chi^2/\text{NDF}$ : 59694393.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.716+/-0.000  $\chi^2/\text{NDF}$ : 454637756.2/4

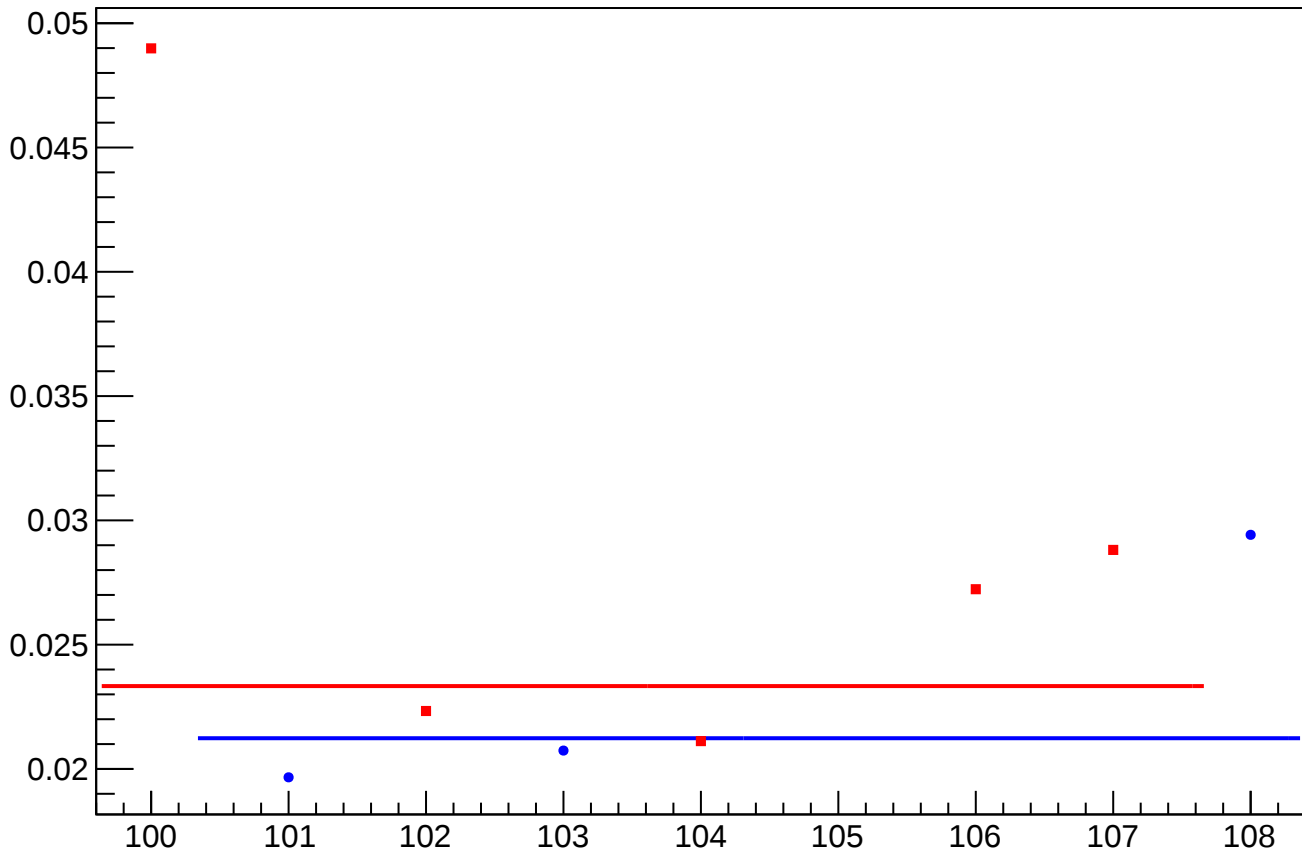
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.711+/-0.000  $\chi^2/\text{NDF}$ : 514461717.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1Y\_rms vs Slug



Right In: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 53337.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 66235.2/4

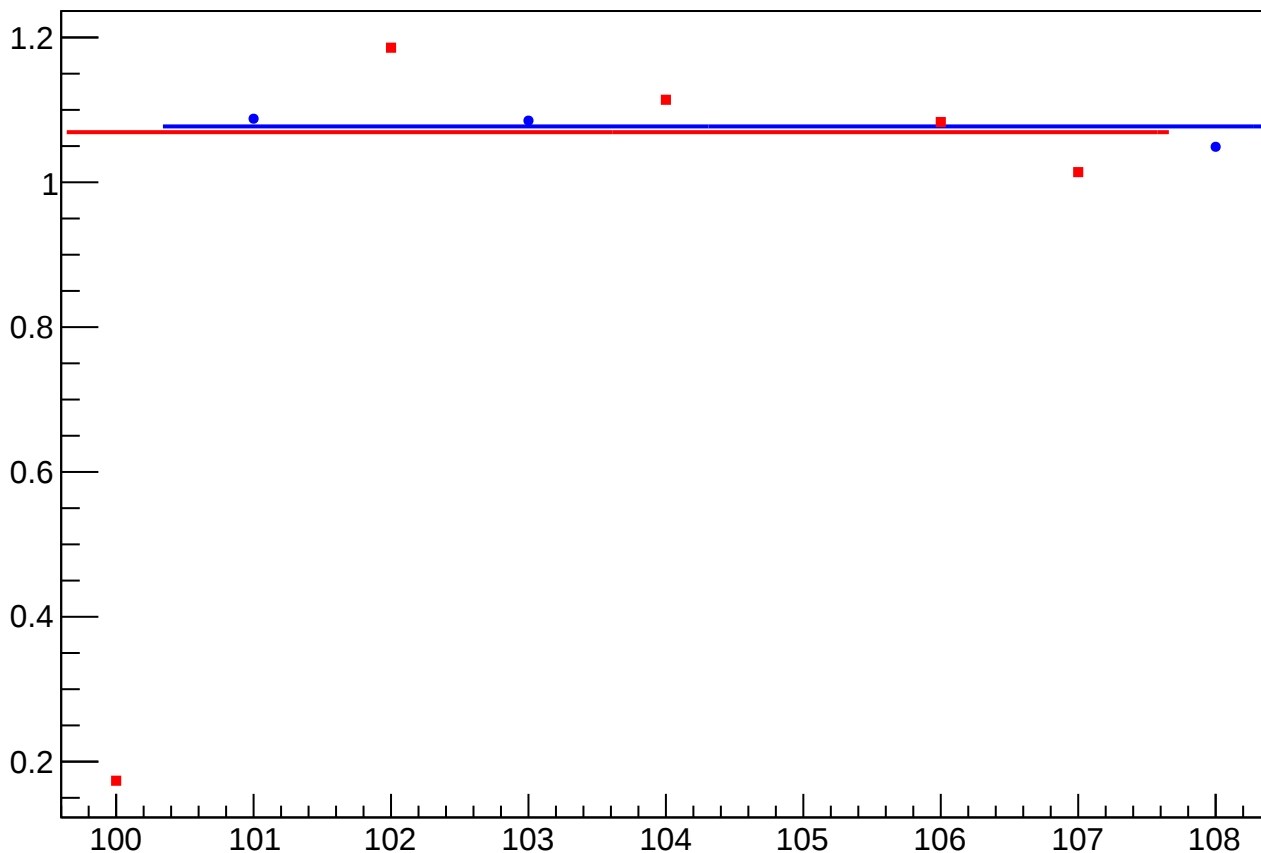
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.022+/-0.000  $\chi^2/\text{NDF}$ : 131773.7/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm11X\_mean vs Slug



Right In: 1.077+/-0.000  $\chi^2/\text{NDF}$ : 1067471.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.069+/-0.000  $\chi^2/\text{NDF}$ : 78475194.9/4

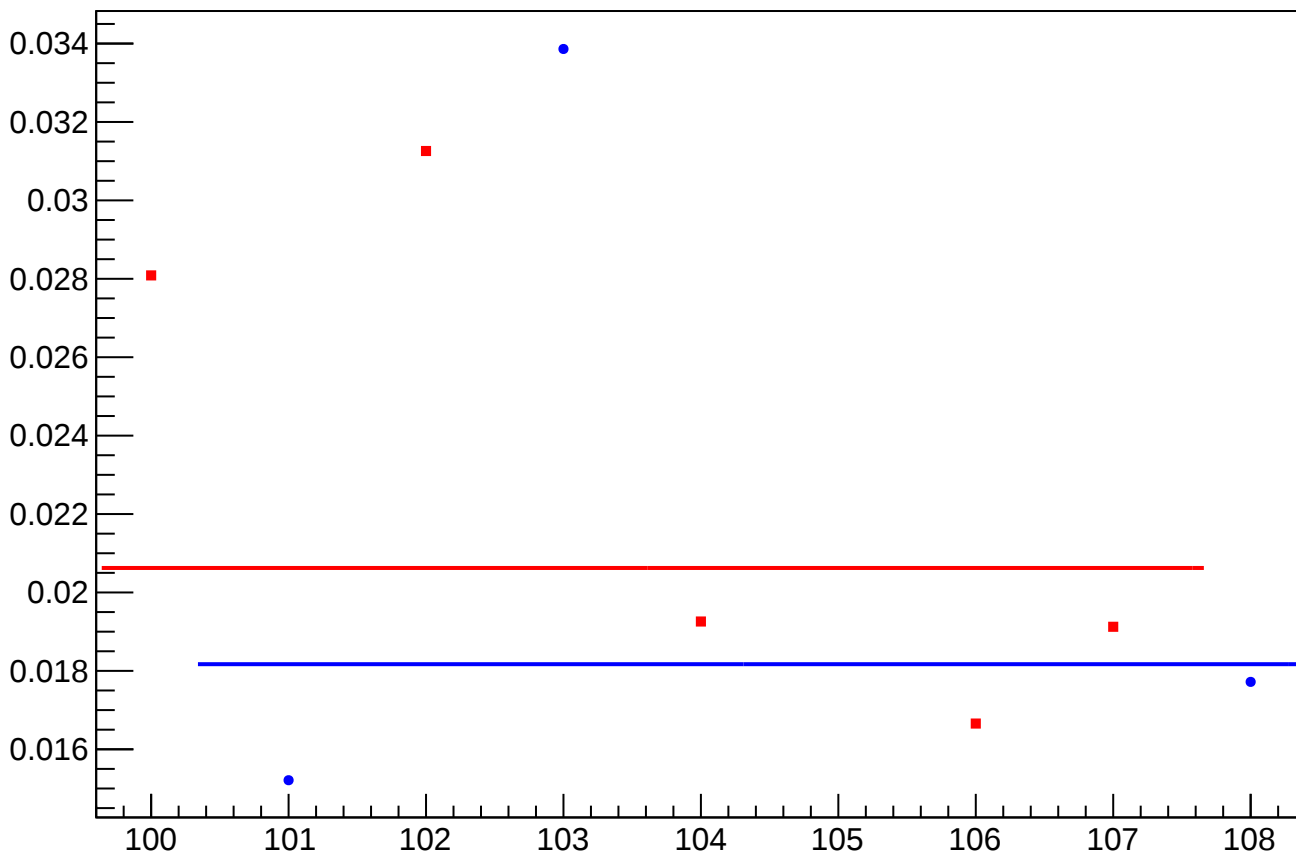
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.073+/-0.000  $\chi^2/\text{NDF}$ : 79651050.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_bpm11X\_rms vs Slug



Right In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 263948.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.021+/-0.000  $\chi^2/\text{NDF}$ : 154480.6/4

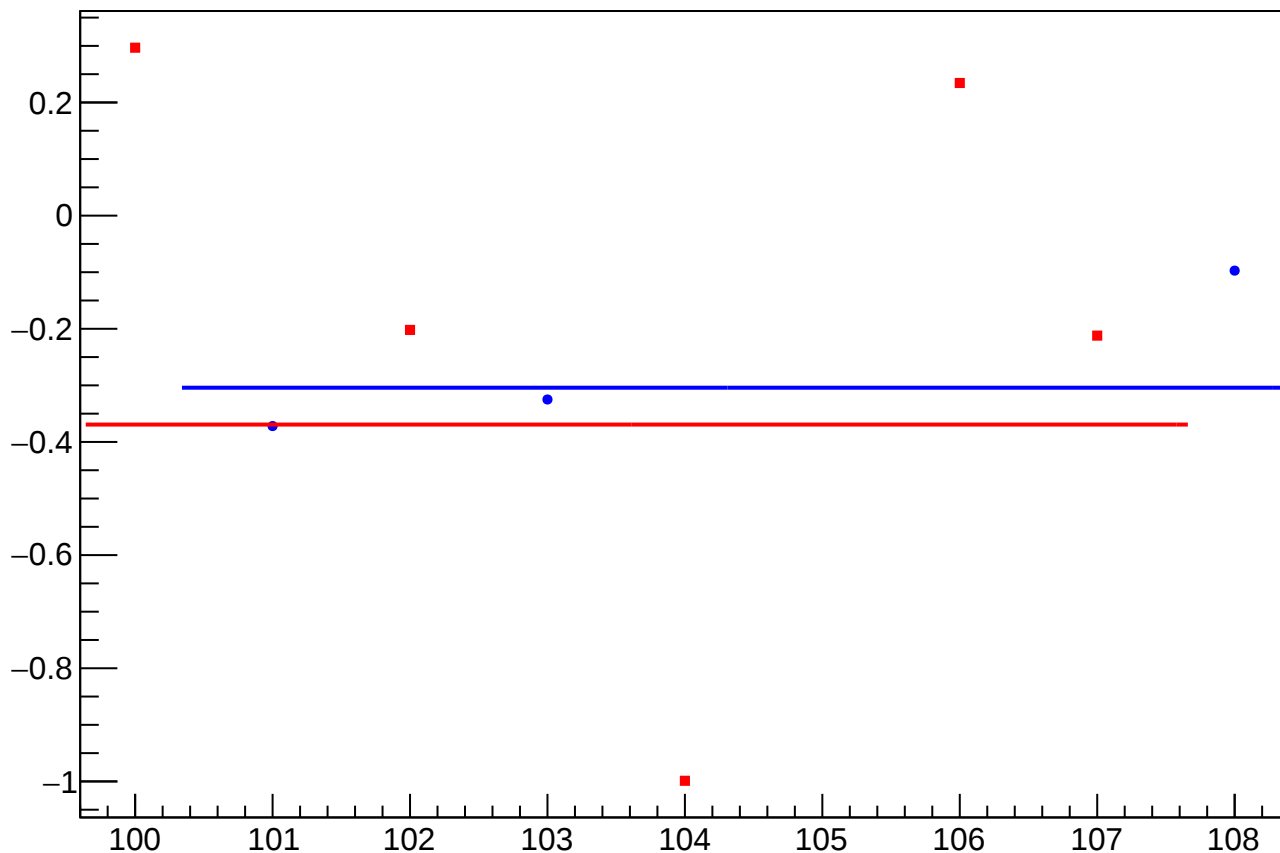
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.019+/-0.000  $\chi^2/\text{NDF}$ : 439174.2/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm11Y\_mean vs Slug



Right In: -0.304+/-0.000  $\chi^2/\text{NDF}$ : 34283347.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.369+/-0.000  $\chi^2/\text{NDF}$ : 1106322539.6/4

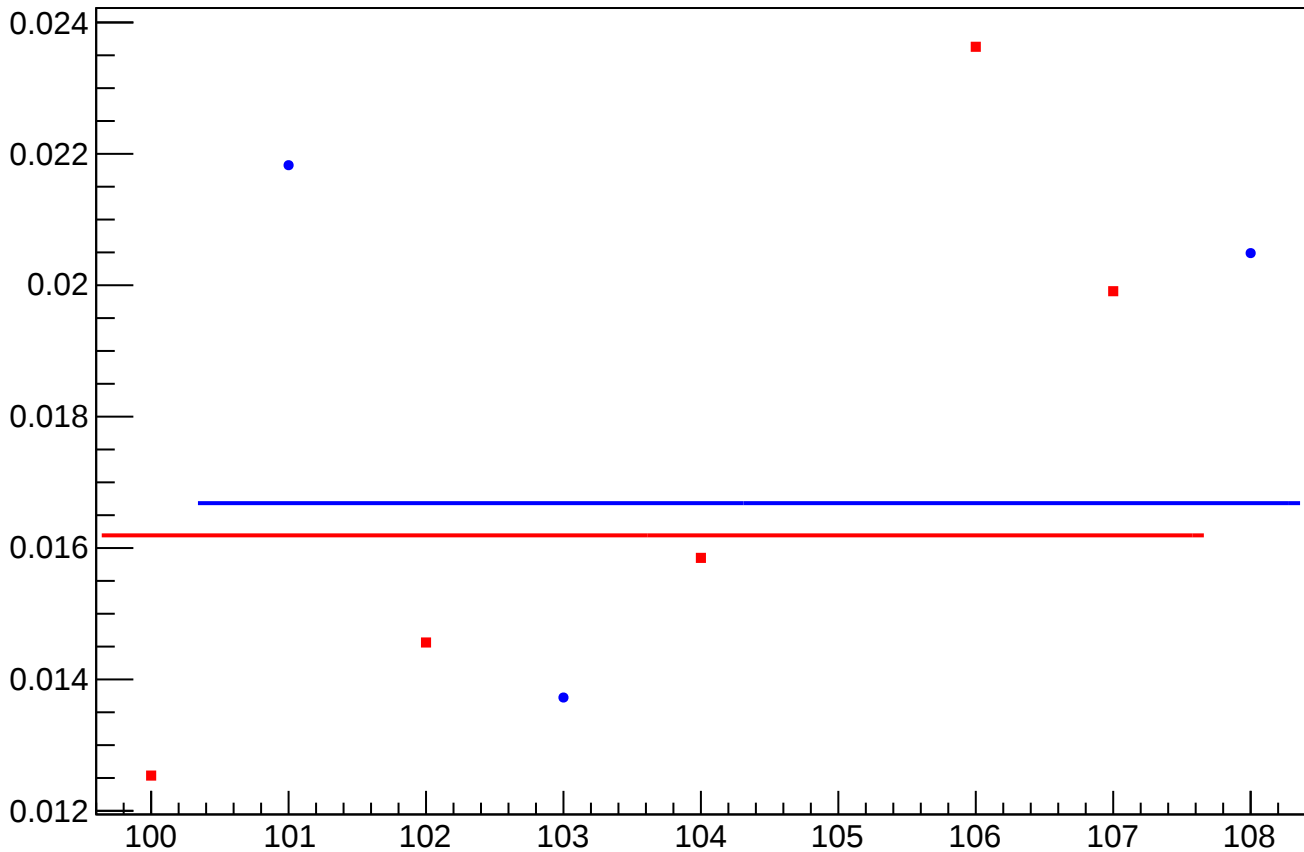
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.339+/-0.000  $\chi^2/\text{NDF}$ : 1151109271.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm11Y\_rms vs Slug



Right In: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 127601.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 93675.0/4

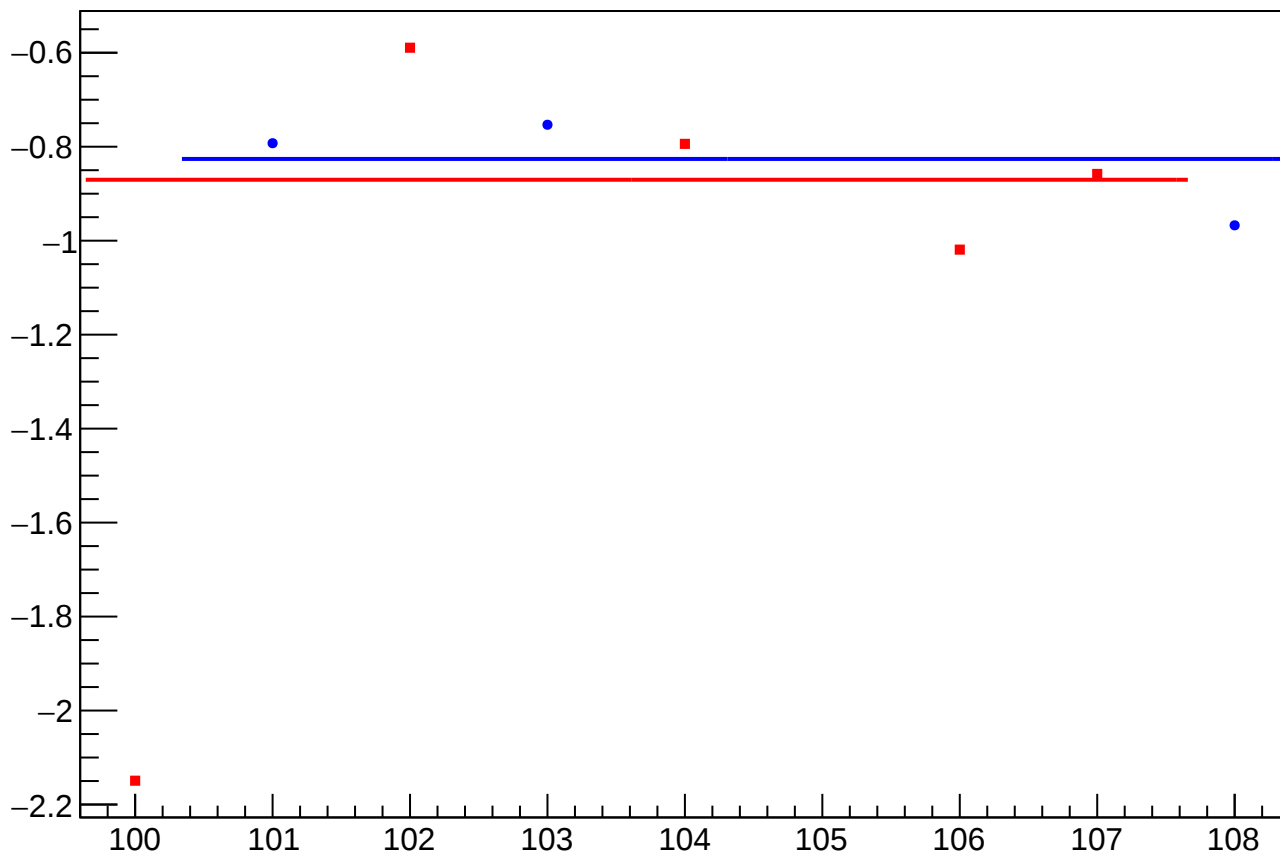
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 222465.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12X\_mean vs Slug



Right In: -0.826+/-0.000  $\chi^2/\text{NDF}$ : 5197162.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.870+/-0.000  $\chi^2/\text{NDF}$ : 51449546.3/4

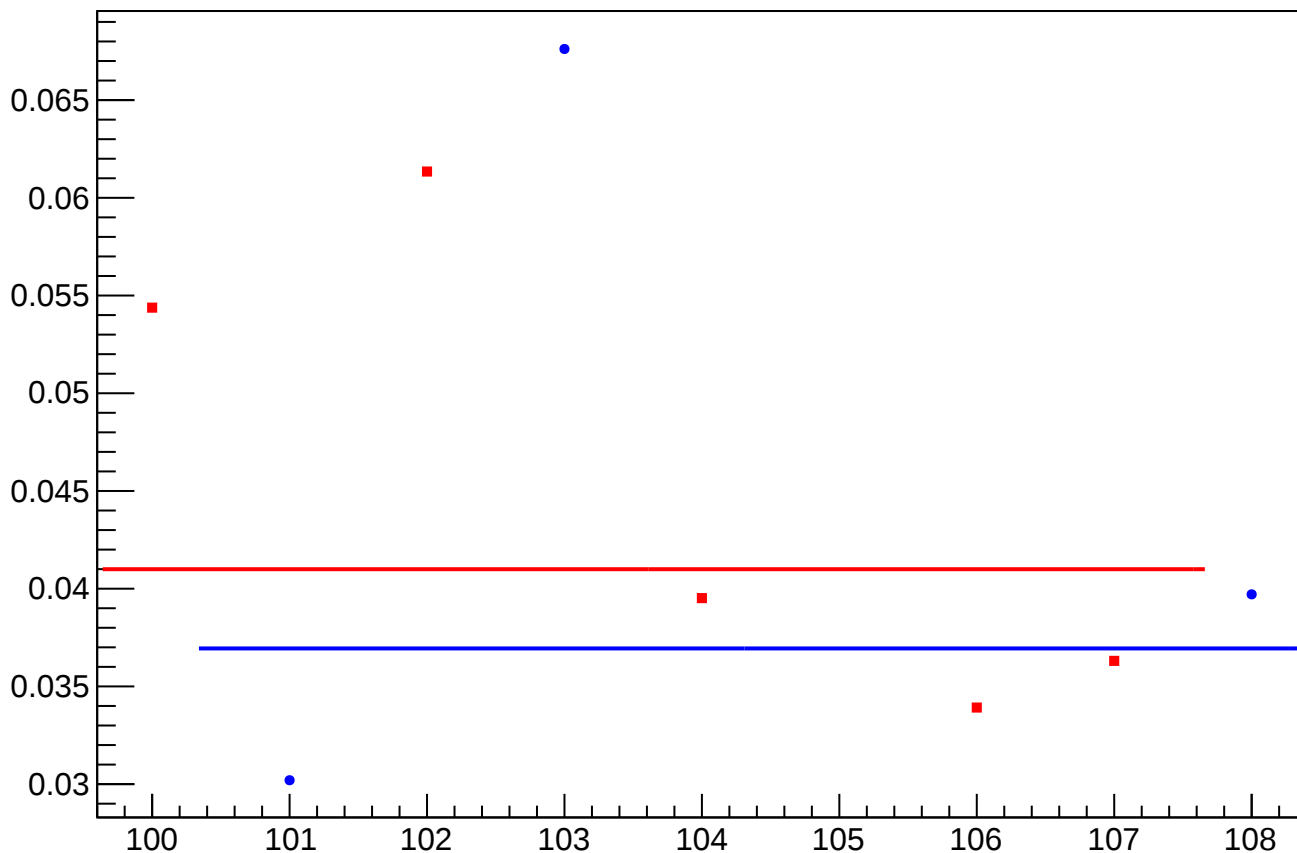
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.847+/-0.000  $\chi^2/\text{NDF}$ : 57494224.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12X\_rms vs Slug



Right In: 0.037 $\pm$ 0.000  $\chi^2$ /NDF: 267243.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.041 $\pm$ 0.000  $\chi^2$ /NDF: 144143.8/4

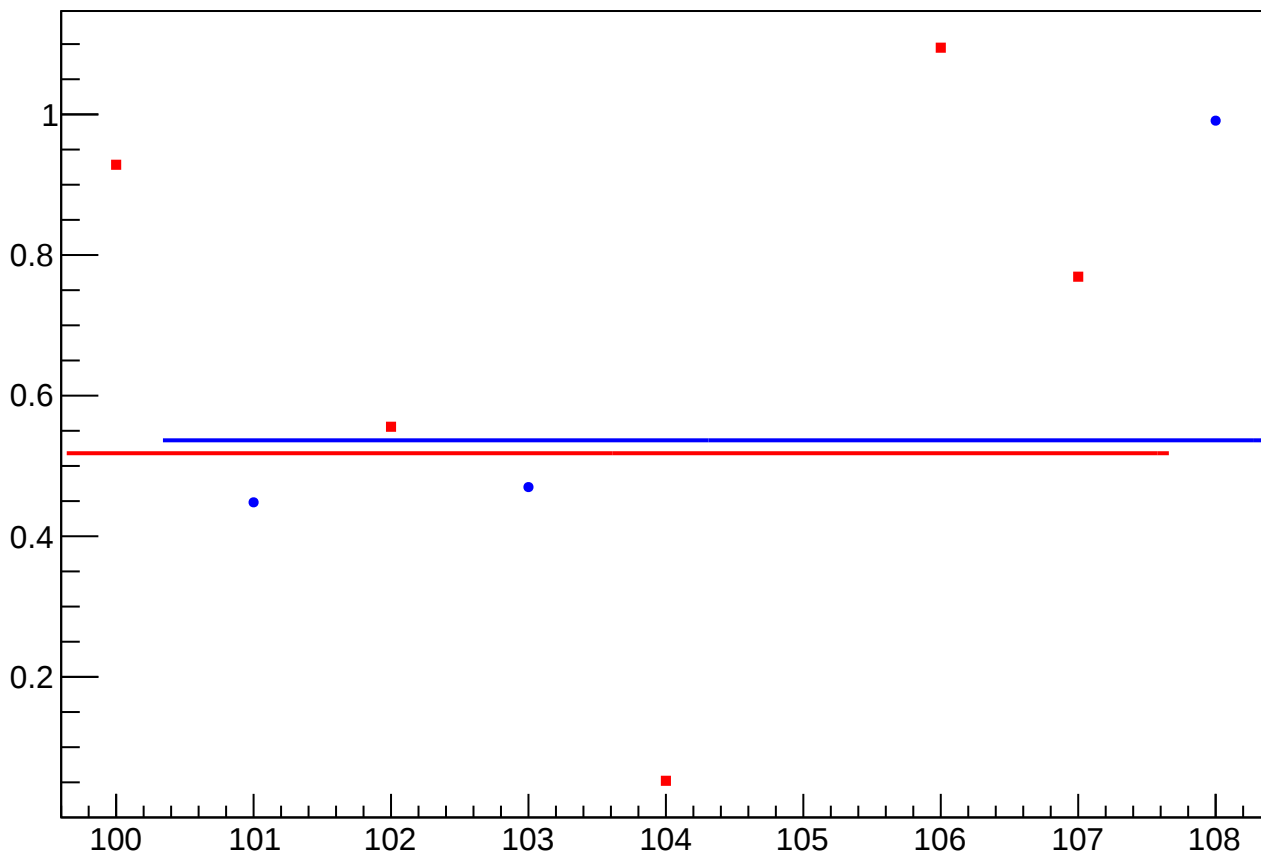
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.039 $\pm$ 0.000  $\chi^2$ /NDF: 425582.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm12Y\_mean vs Slug



Right In: 0.536 $\pm$ 0.000  $\chi^2$ /NDF: 288943639.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.518 $\pm$ 0.000  $\chi^2$ /NDF: 1179038428.0/4

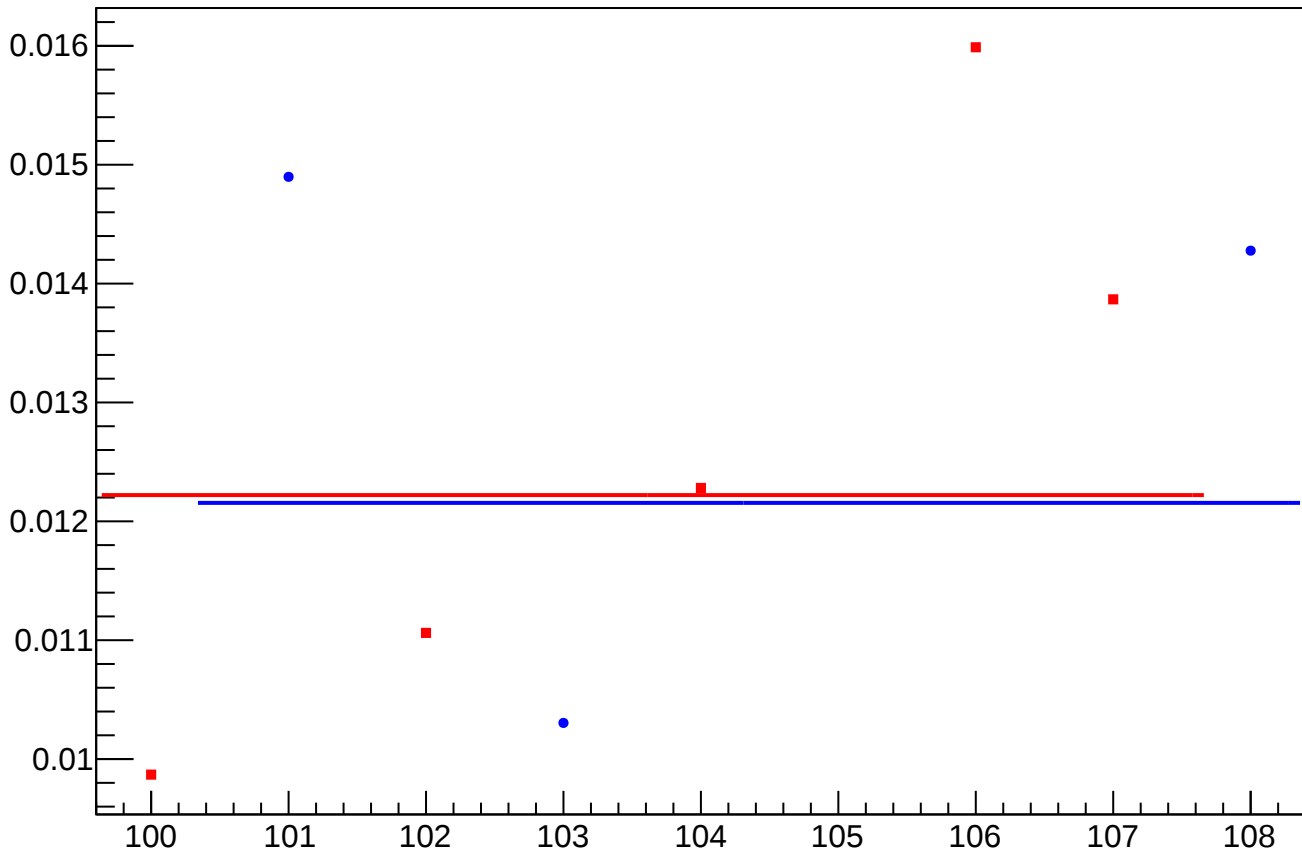
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.527 $\pm$ 0.000  $\chi^2$ /NDF: 1469523925.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm12Y\_rms vs Slug



Right In: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 81496.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 54741.9/4

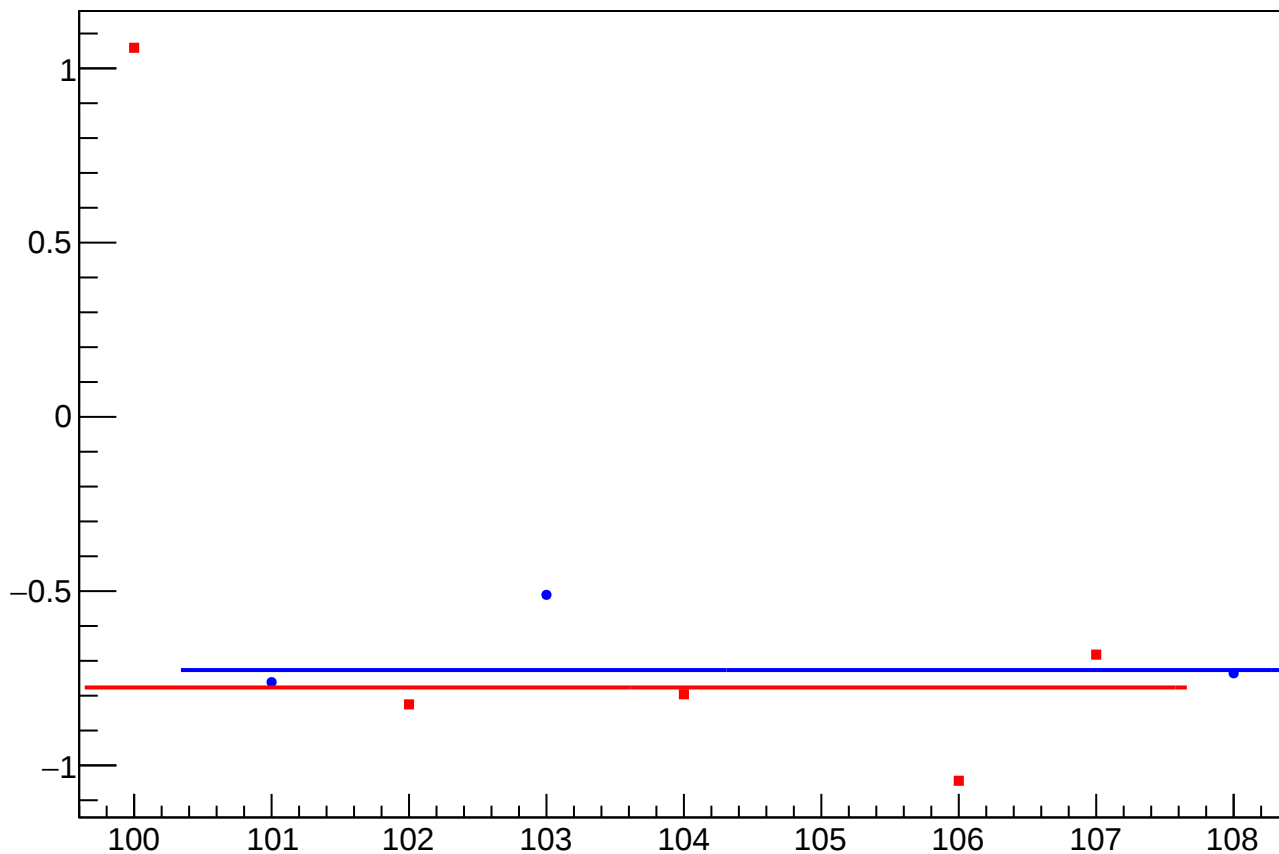
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 136277.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm16X\_mean vs Slug



Right In:  $-0.726 \pm 0.000$   $\chi^2/\text{NDF}$ : 5943153.2/2

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.776 \pm 0.000$   $\chi^2/\text{NDF}$ : 61738628.3/4

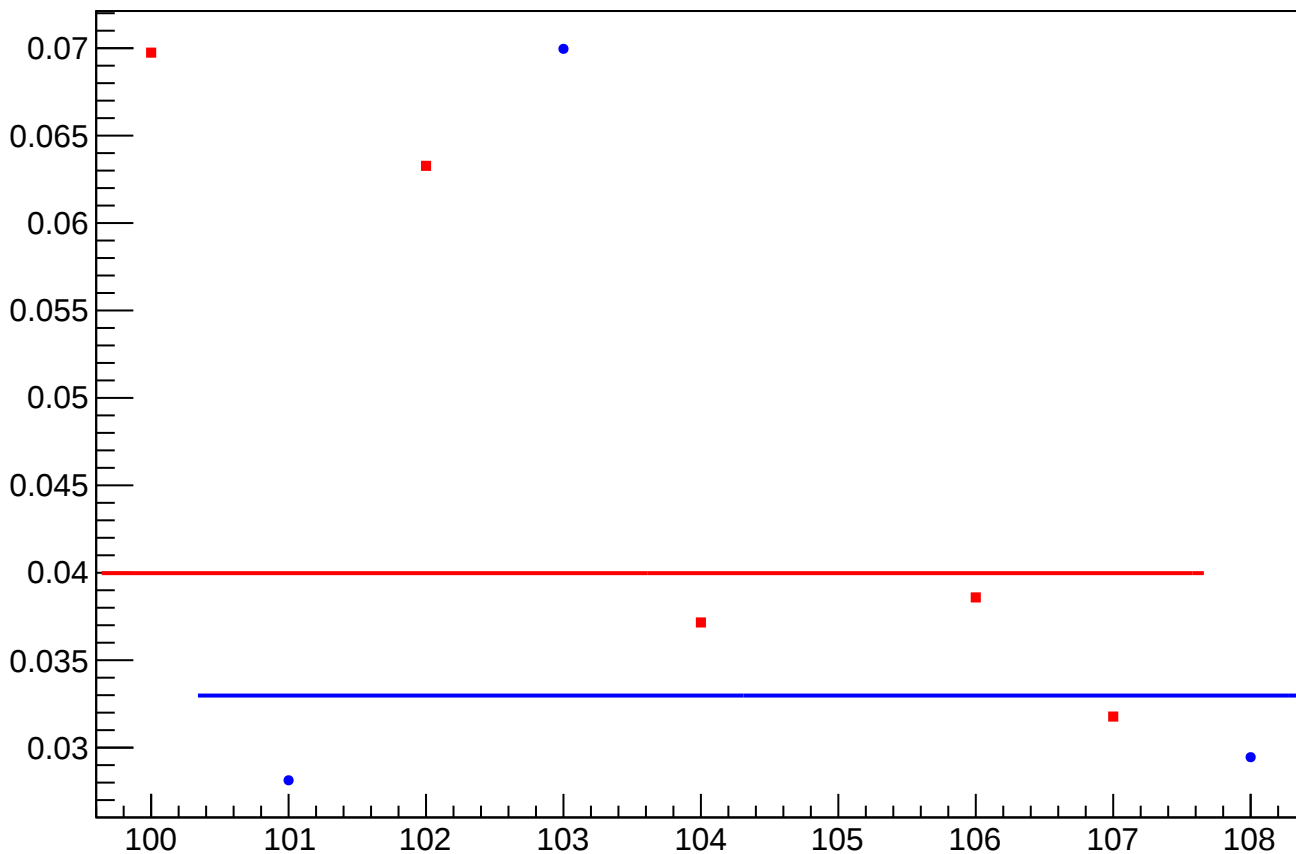
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.748 \pm 0.000$   $\chi^2/\text{NDF}$ : 68839311.5/7

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16X\_rms vs Slug



Right In: 0.033+/-0.000  $\chi^2/\text{NDF}$ : 341556.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.040+/-0.000  $\chi^2/\text{NDF}$ : 195126.6/4

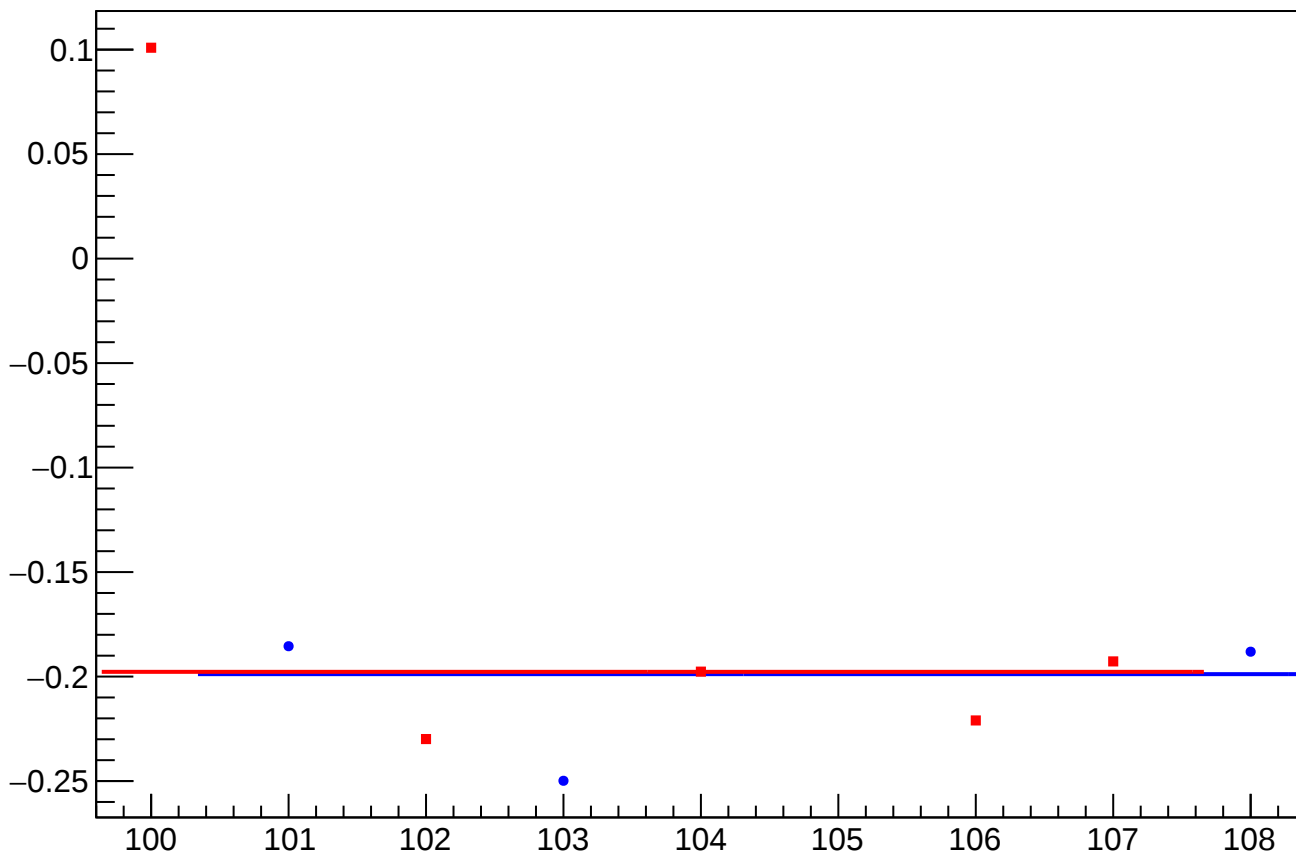
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.036+/-0.000  $\chi^2/\text{NDF}$ : 582146.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16Y\_mean vs Slug



Right In: -0.199+/-0.000  $\chi^2/\text{NDF}$ : 33072339.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

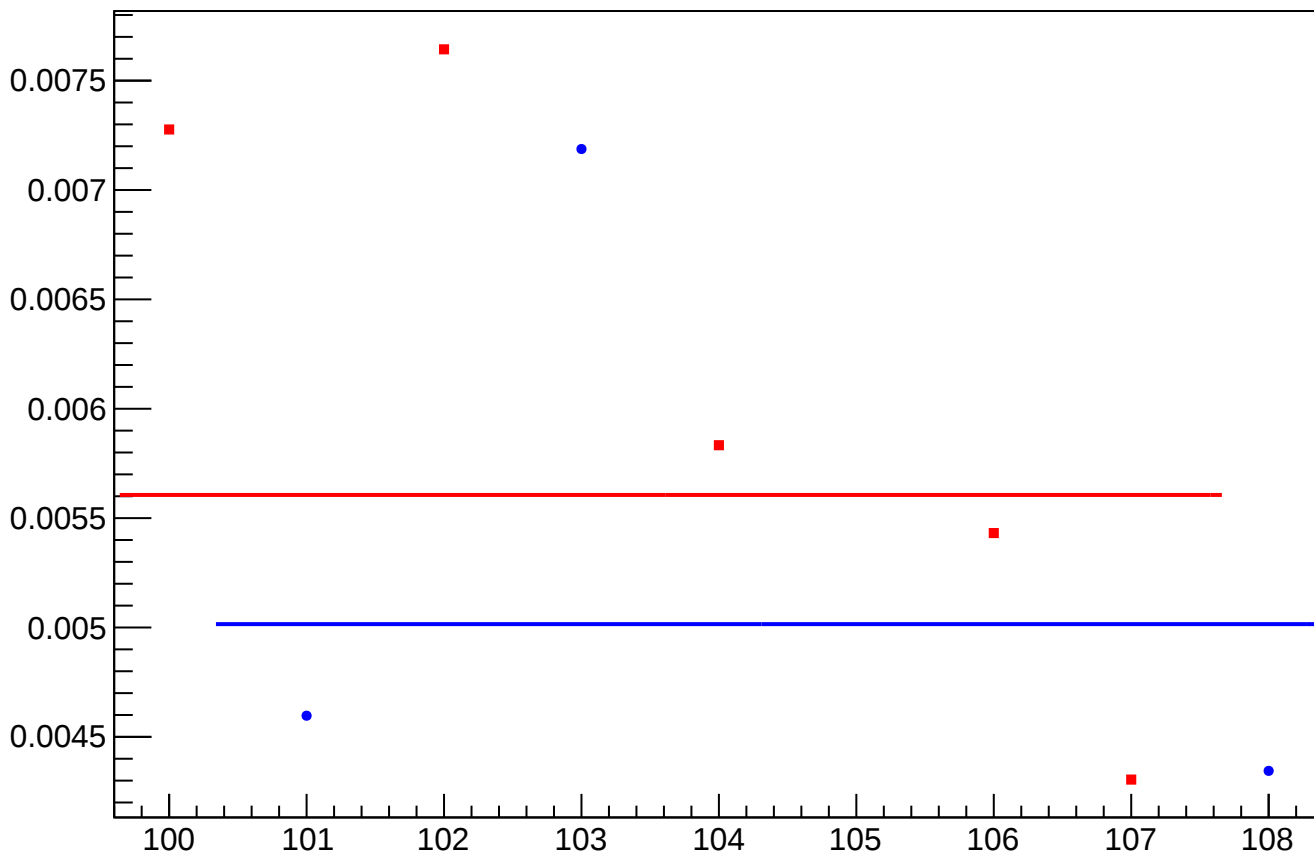
Right Out: -0.198+/-0.000  $\chi^2/\text{NDF}$ : 127985816.5/4

All: -0.198+/-0.000  $\chi^2/\text{NDF}$ : 161088633.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 120909.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 135649.1/4

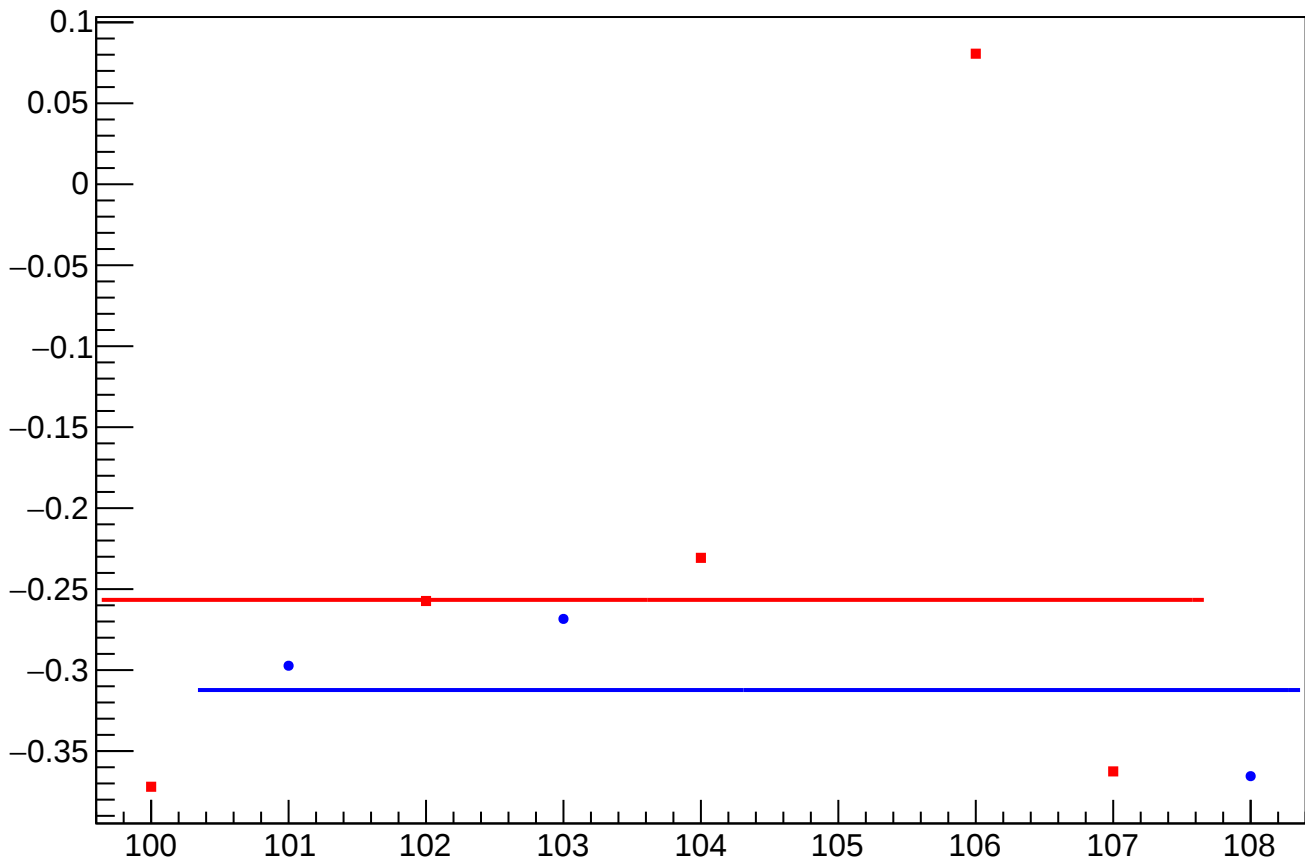
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 273972.2/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02X\_mean vs Slug



Right In: -0.312+/-0.000  $\chi^2/\text{NDF}$ : 48811449.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

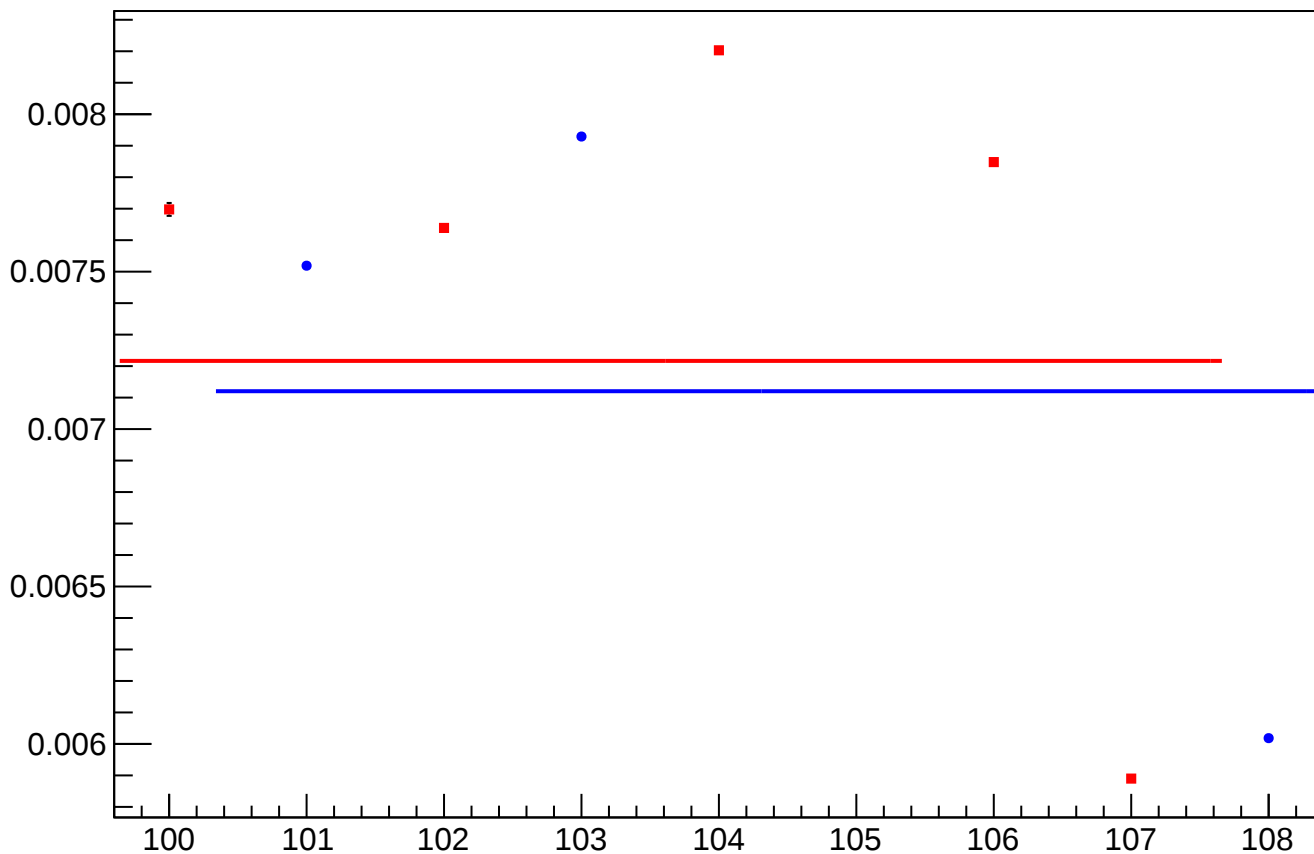
Right Out: -0.257+/-0.000  $\chi^2/\text{NDF}$ : 483849530.4/4

All: -0.284+/-0.000  $\chi^2/\text{NDF}$ : 579498833.7/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 40077.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 56145.0/4

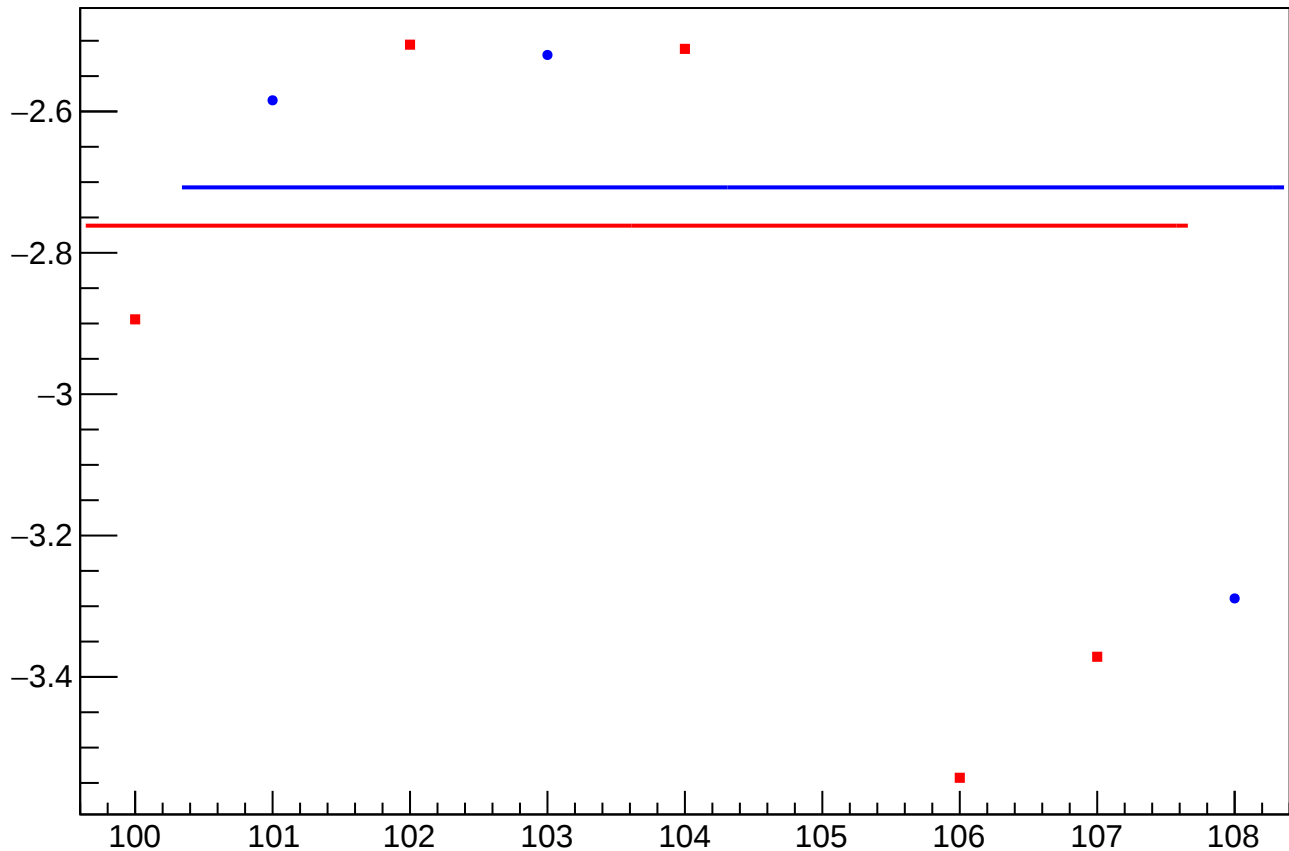
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 96503.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02Y\_mean vs Slug



Right In: -2.707+/-0.000  $\chi^2/\text{NDF}$ : 2521644958.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.762+/-0.000  $\chi^2/\text{NDF}$ : 4245242643.2/4

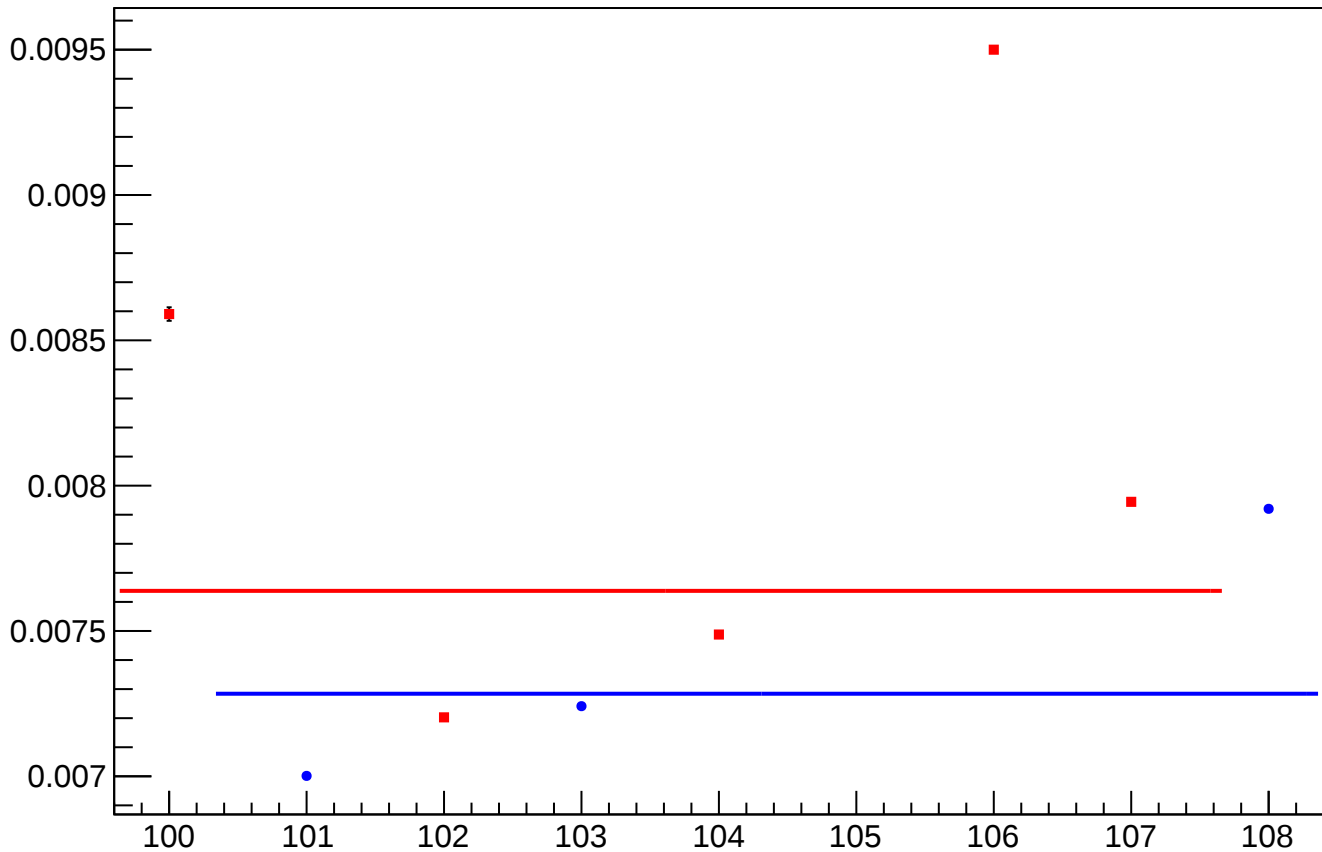
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.734+/-0.000  $\chi^2/\text{NDF}$ : 6806895890.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02Y\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 6616.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 18534.7/4

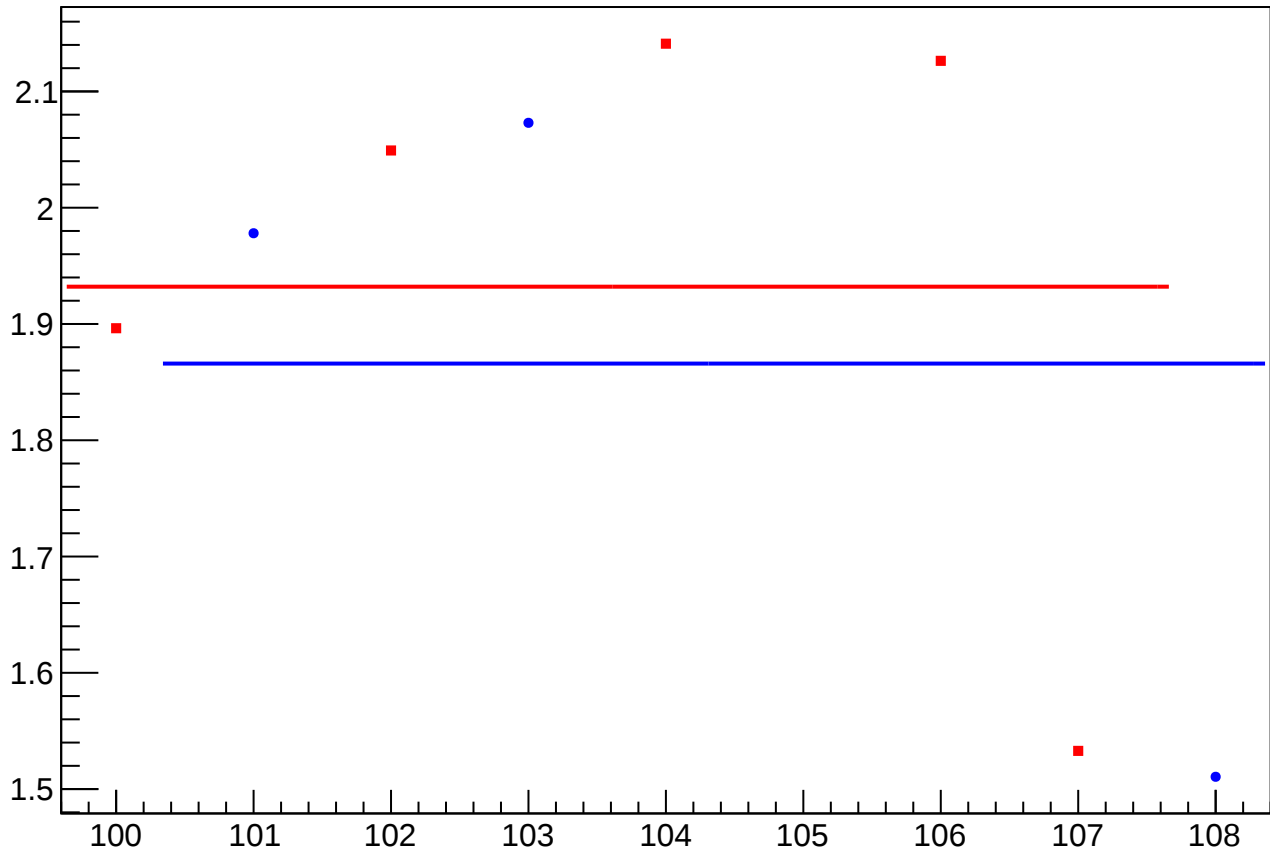
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 28568.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aX\_mean vs Slug



Right In: 1.866 $\pm$ 0.000  $\chi^2$ /NDF: 538949735.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.932 $\pm$ 0.000  $\chi^2$ /NDF: 642250663.2/4

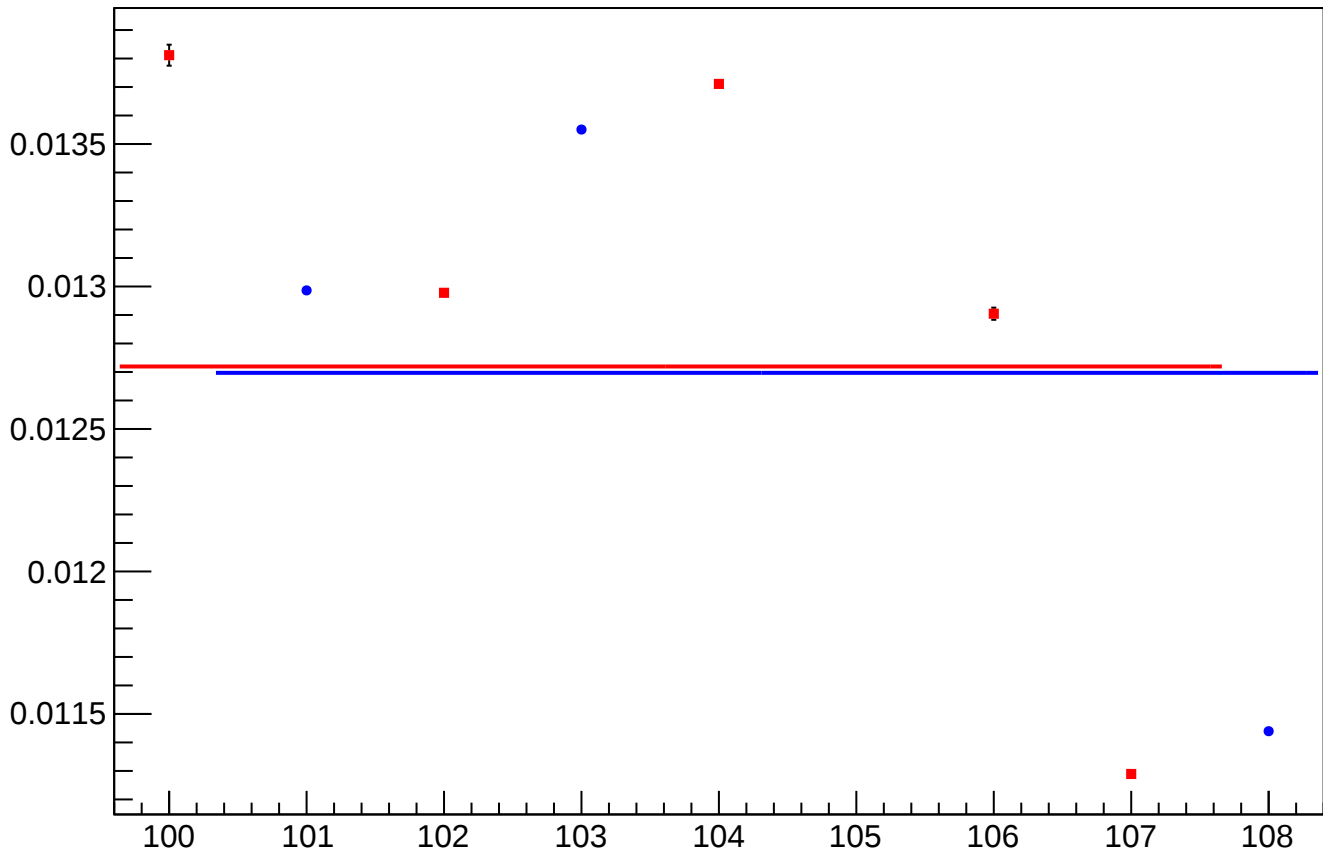
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.900 $\pm$ 0.000  $\chi^2$ /NDF: 1202434724.8/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i02aX\_rms vs Slug



Right In: 0.013 $\pm$ 0.000  $\chi^2$ /NDF: 14166.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.013 $\pm$ 0.000  $\chi^2$ /NDF: 17839.1/4

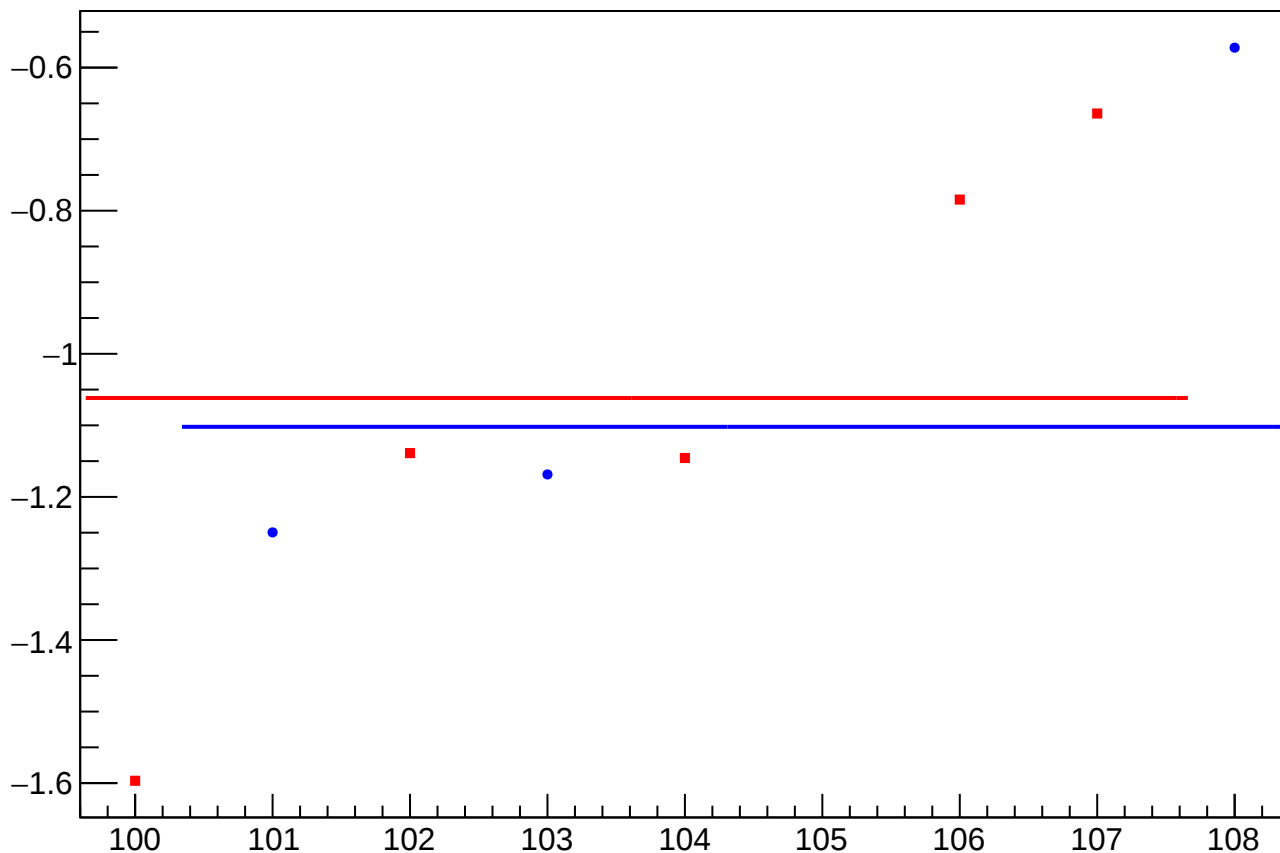
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.013 $\pm$ 0.000  $\chi^2$ /NDF: 32010.8/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i02aY\_mean vs Slug



Right In: -1.102+/-0.000  $\chi^2/\text{NDF}$ : 1407450385.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.062+/-0.000  $\chi^2/\text{NDF}$ : 1002586501.3/4

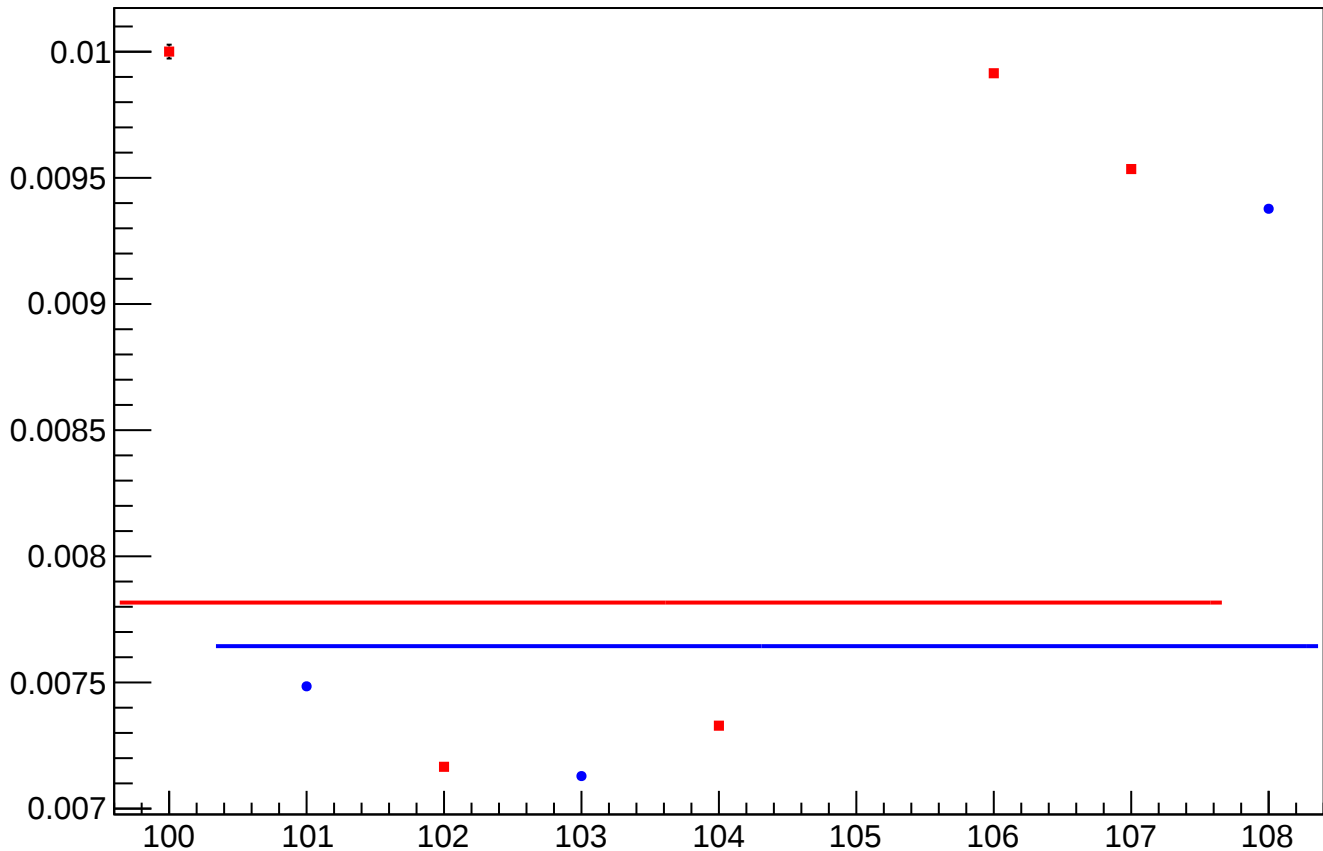
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.082+/-0.000  $\chi^2/\text{NDF}$ : 2429981163.2/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aY\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 30705.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 53188.1/4

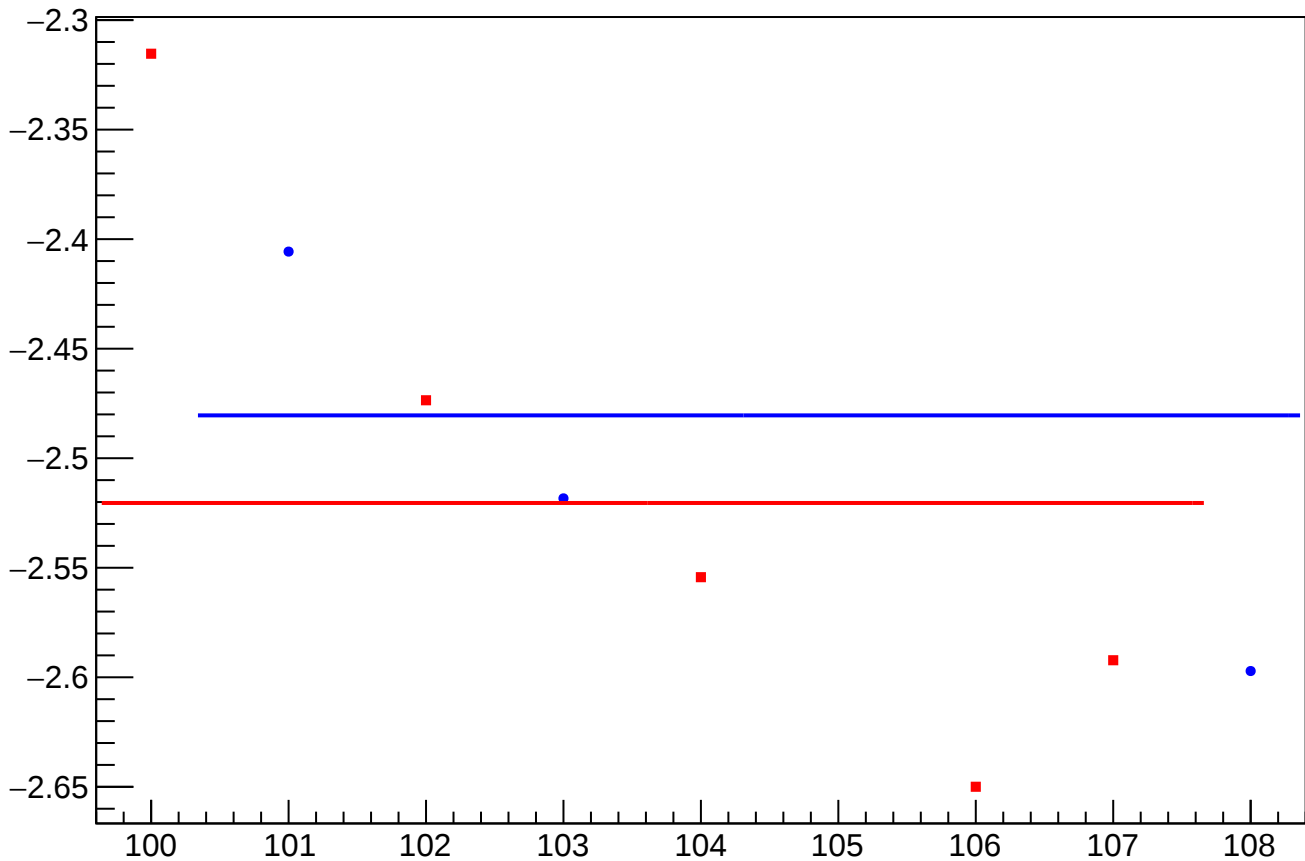
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 84625.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05X\_mean vs Slug



Right In: -2.480+/-0.000  $\chi^2/\text{NDF}$ : 244886475.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.520+/-0.000  $\chi^2/\text{NDF}$ : 222446356.0/4

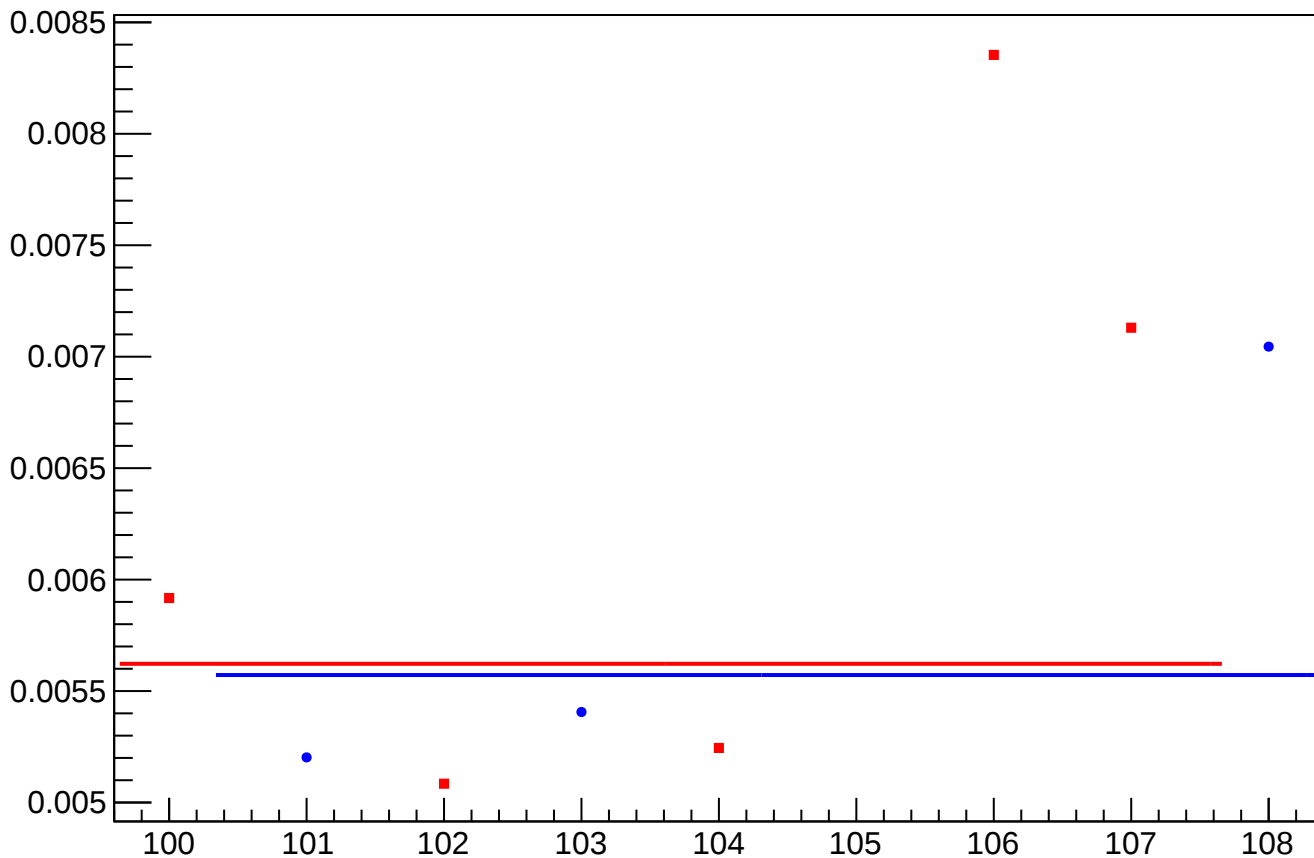
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.501+/-0.000  $\chi^2/\text{NDF}$ : 505640335.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05X\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 38819.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 83902.6/4

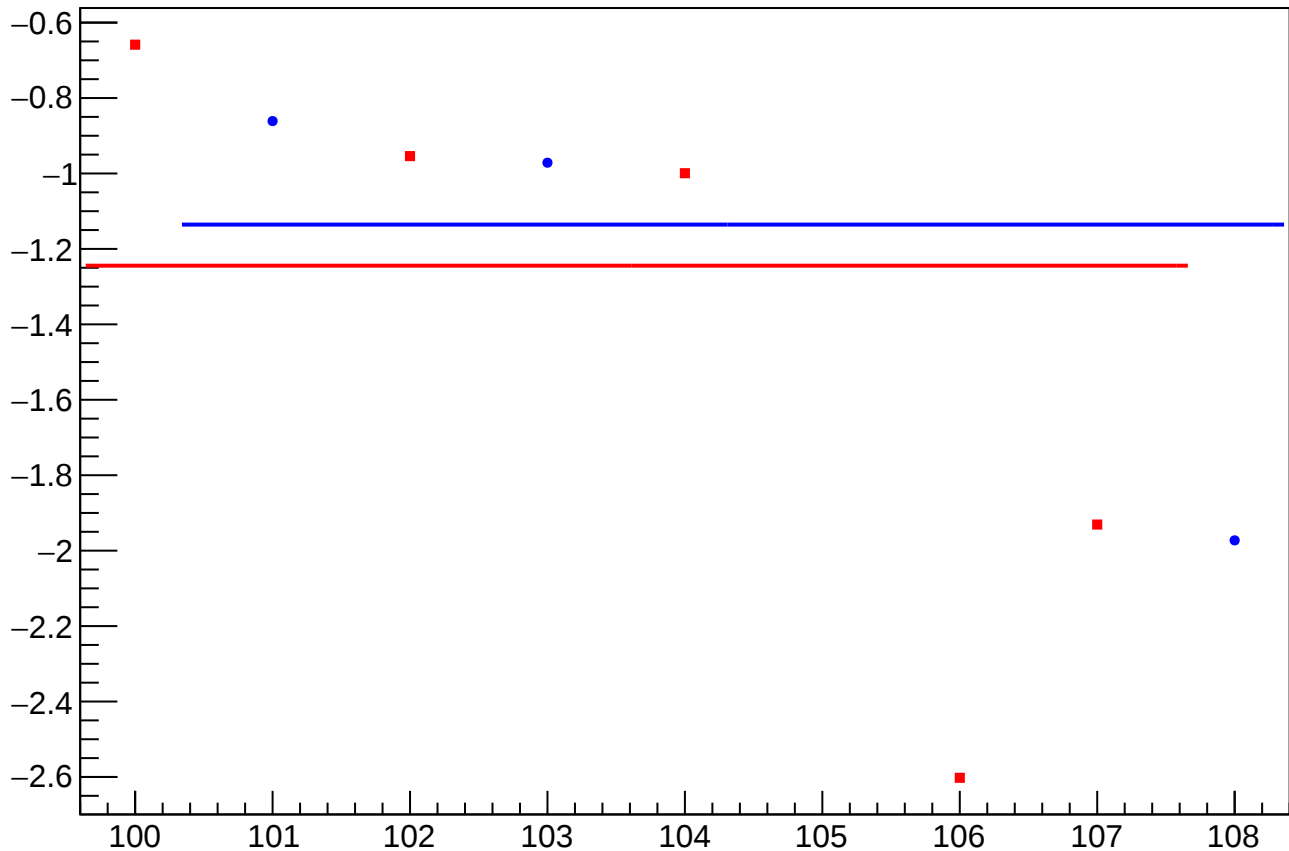
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 122843.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05Y\_mean vs Slug



Right In: -1.136+/-0.000  $\chi^2/\text{NDF}$ : 8922813790.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.244+/-0.000  $\chi^2/\text{NDF}$ : 15519344563.6/4

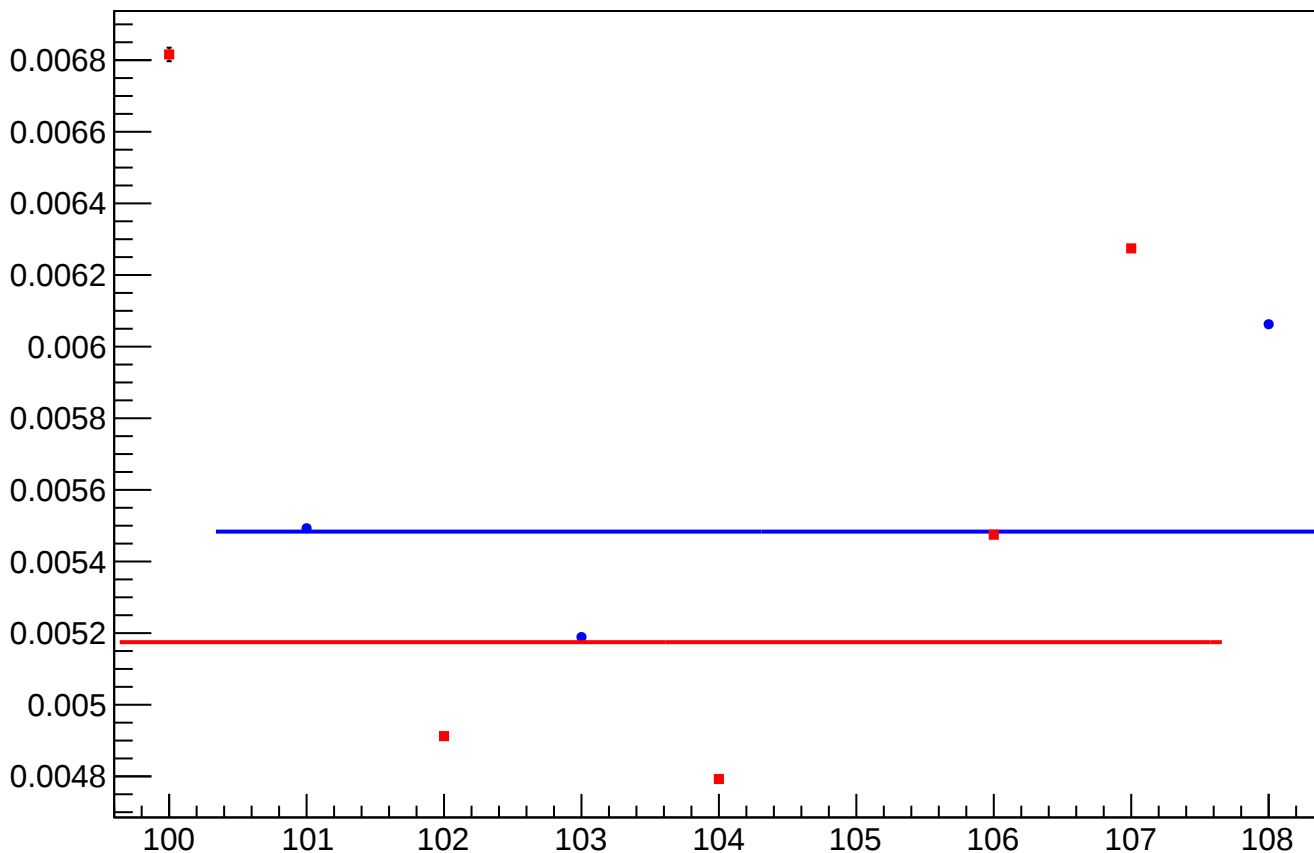
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.194+/-0.000  $\chi^2/\text{NDF}$ : 24749020938.7/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 10202.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 37929.3/4

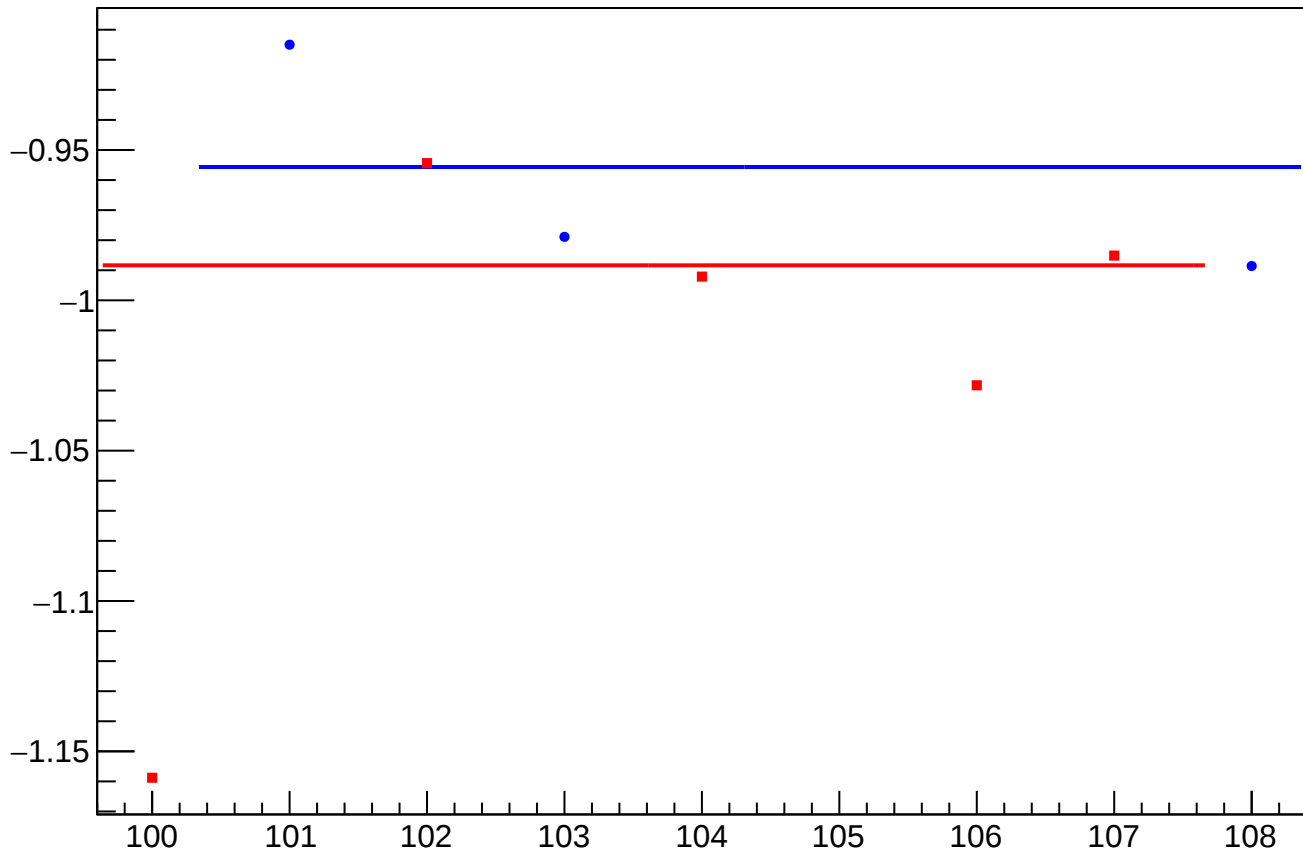
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 53062.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07X\_mean vs Slug



Right In: -0.956+/-0.000  $\chi^2/\text{NDF}$ : 80932011.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

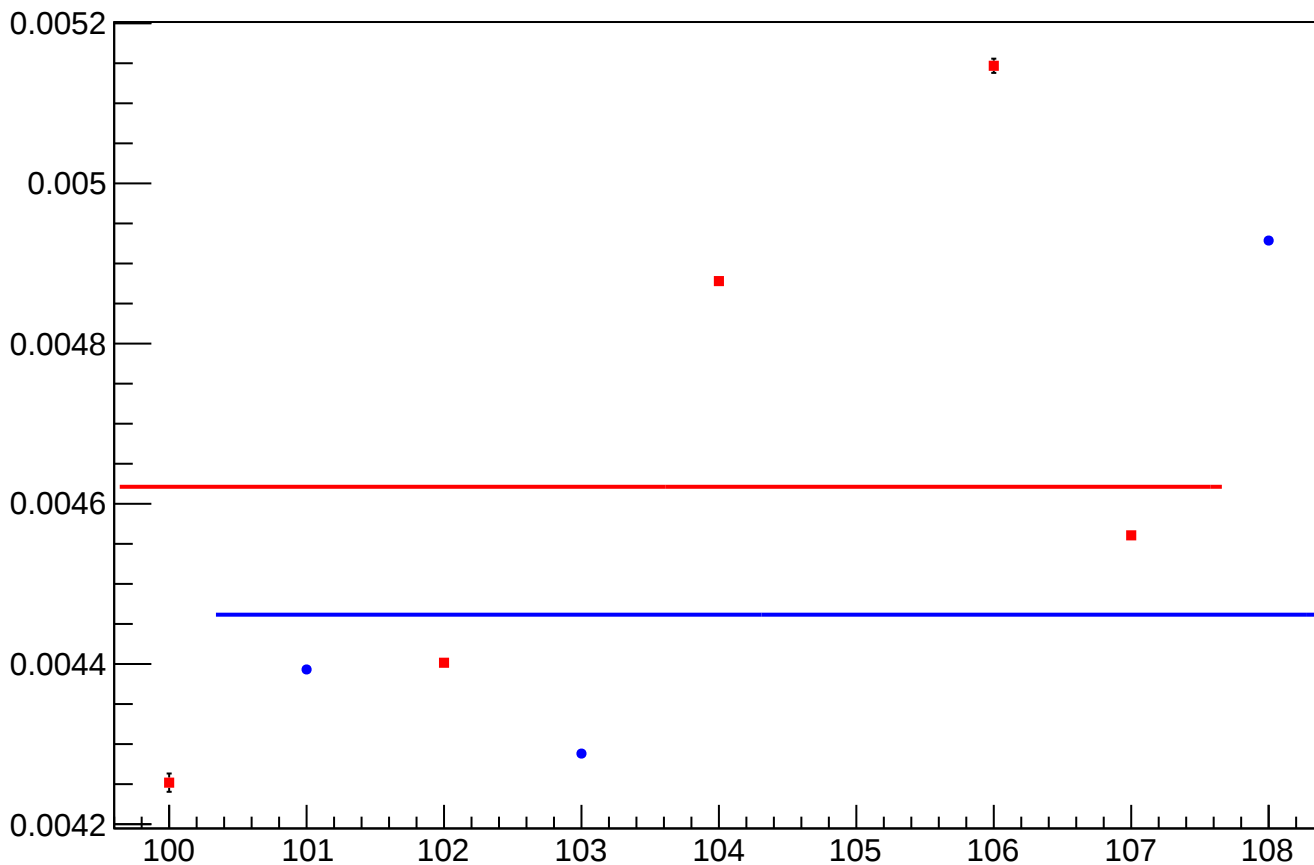
Right Out: -0.988+/-0.000  $\chi^2/\text{NDF}$ : 153419363.9/4

All: -0.972+/-0.000  $\chi^2/\text{NDF}$ : 273976904.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07X\_rms vs Slug



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 8713.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 9925.1/4

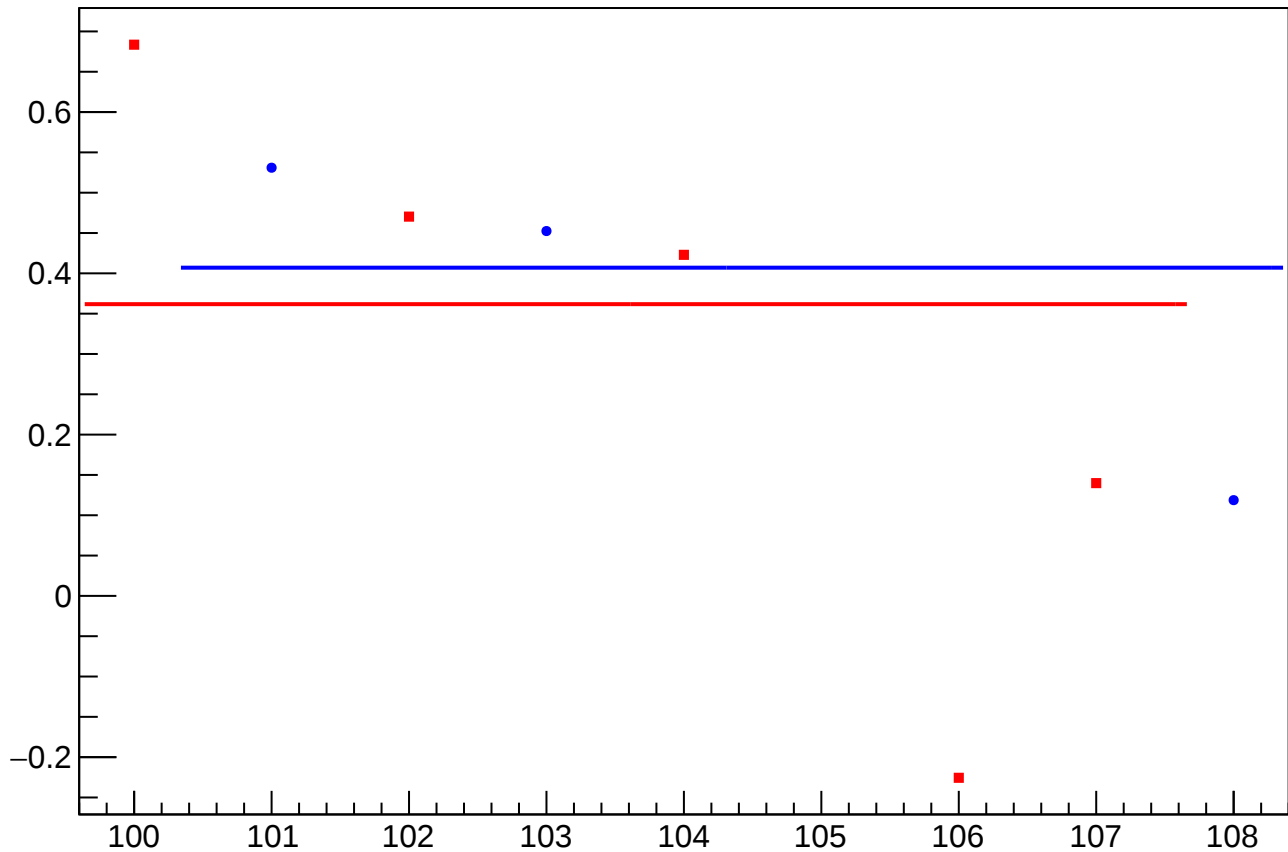
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 20529.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i07Y\_mean vs Slug



Right In: 0.407 $\pm$ 0.000  $\chi^2$ /NDF: 2793350684.2/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.362 $\pm$ 0.000  $\chi^2$ /NDF: 4592141654.3/4

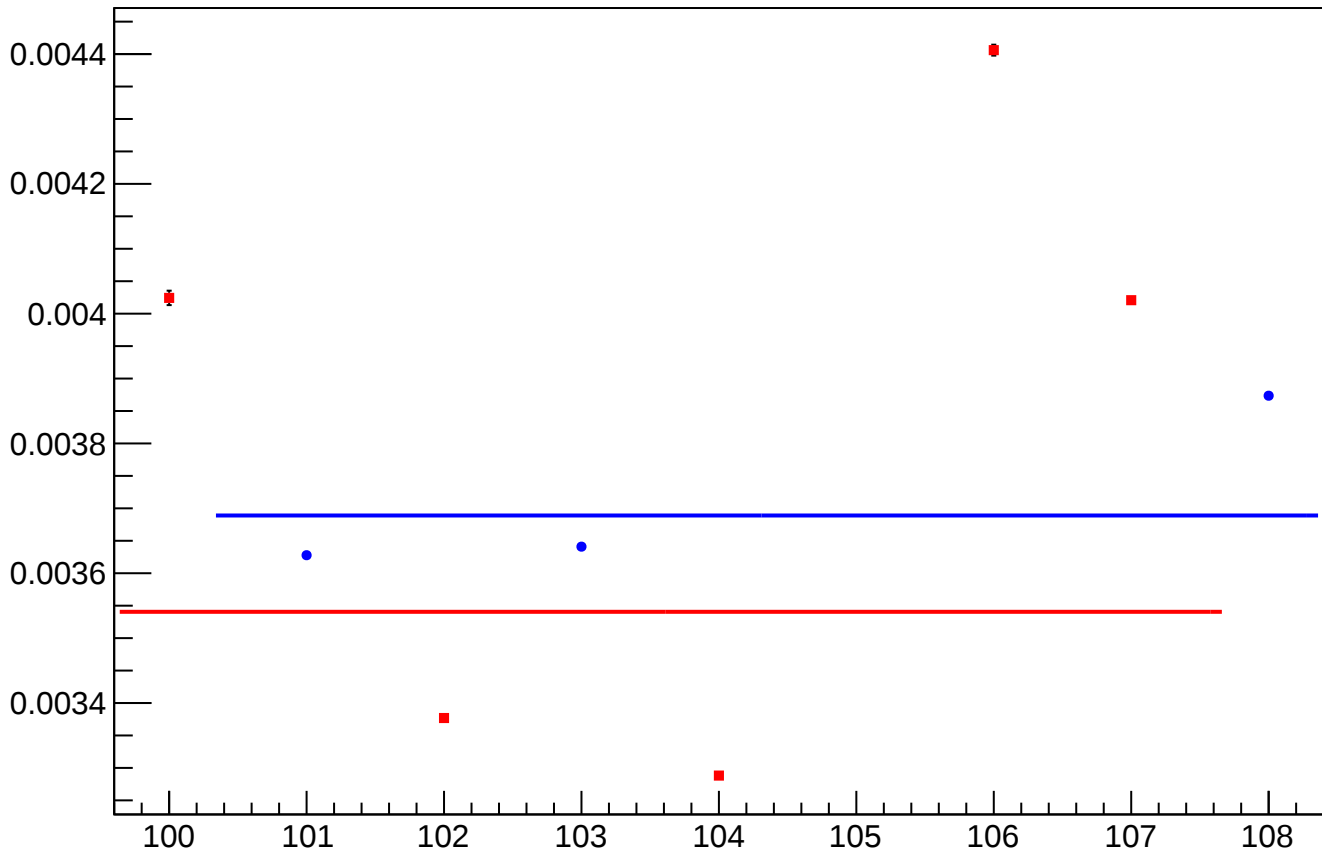
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.383 $\pm$ 0.000  $\chi^2$ /NDF: 7502262710.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i07Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 2192.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 30164.0/4

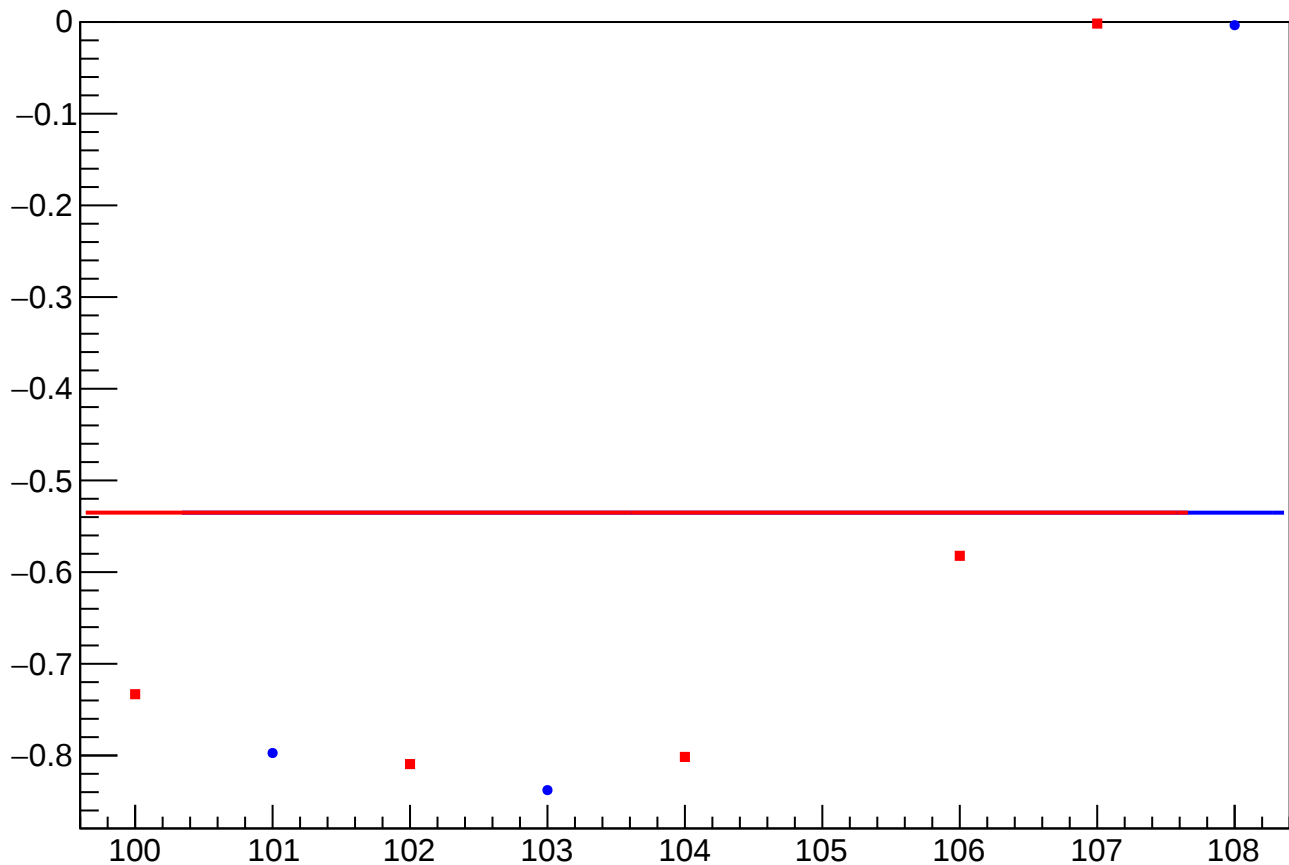
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 34869.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02X\_mean vs Slug



Right In: -0.535+/-0.000  $\chi^2/\text{NDF}$ : 1766352878.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.535+/-0.000  $\chi^2/\text{NDF}$ : 1638951732.5/4

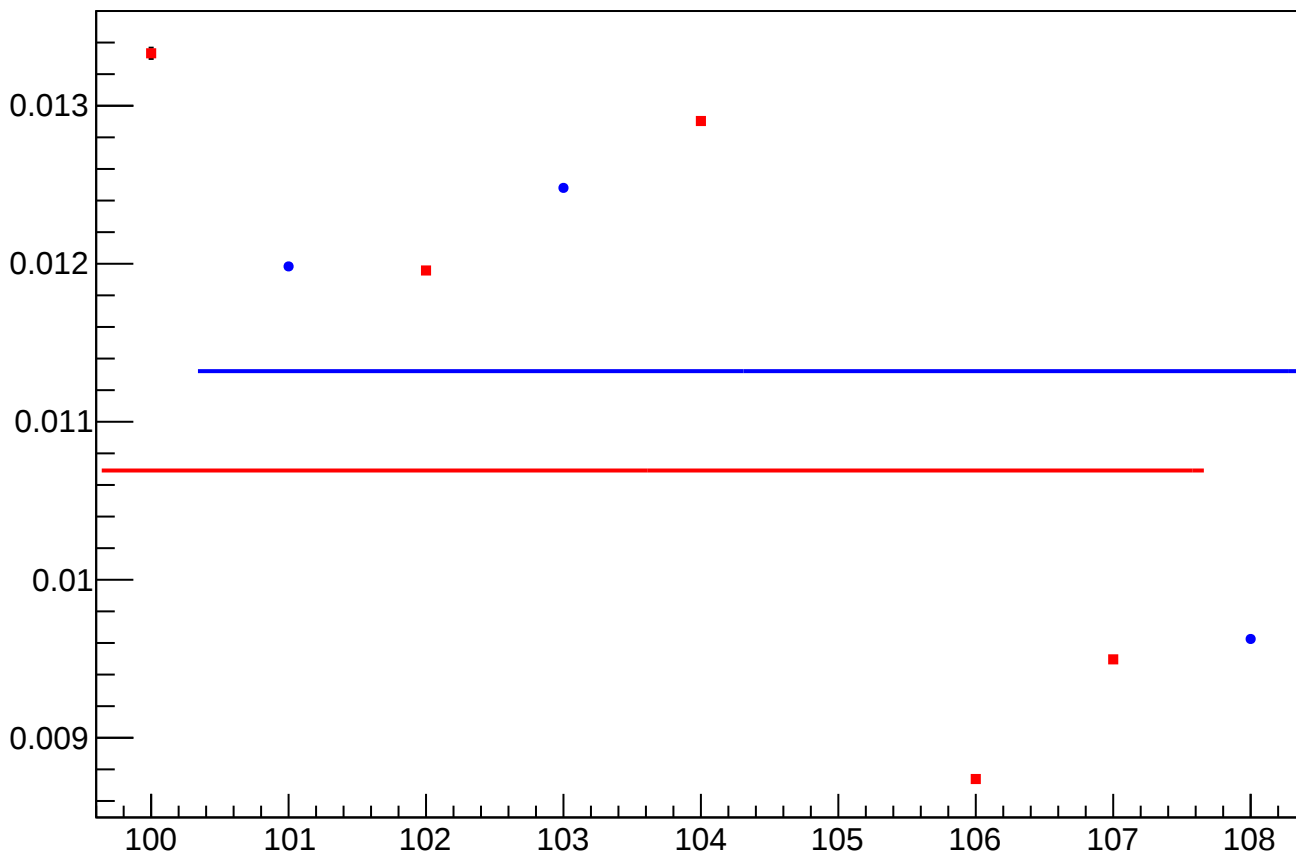
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.535+/-0.000  $\chi^2/\text{NDF}$ : 3405304635.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 36785.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 87875.6/4

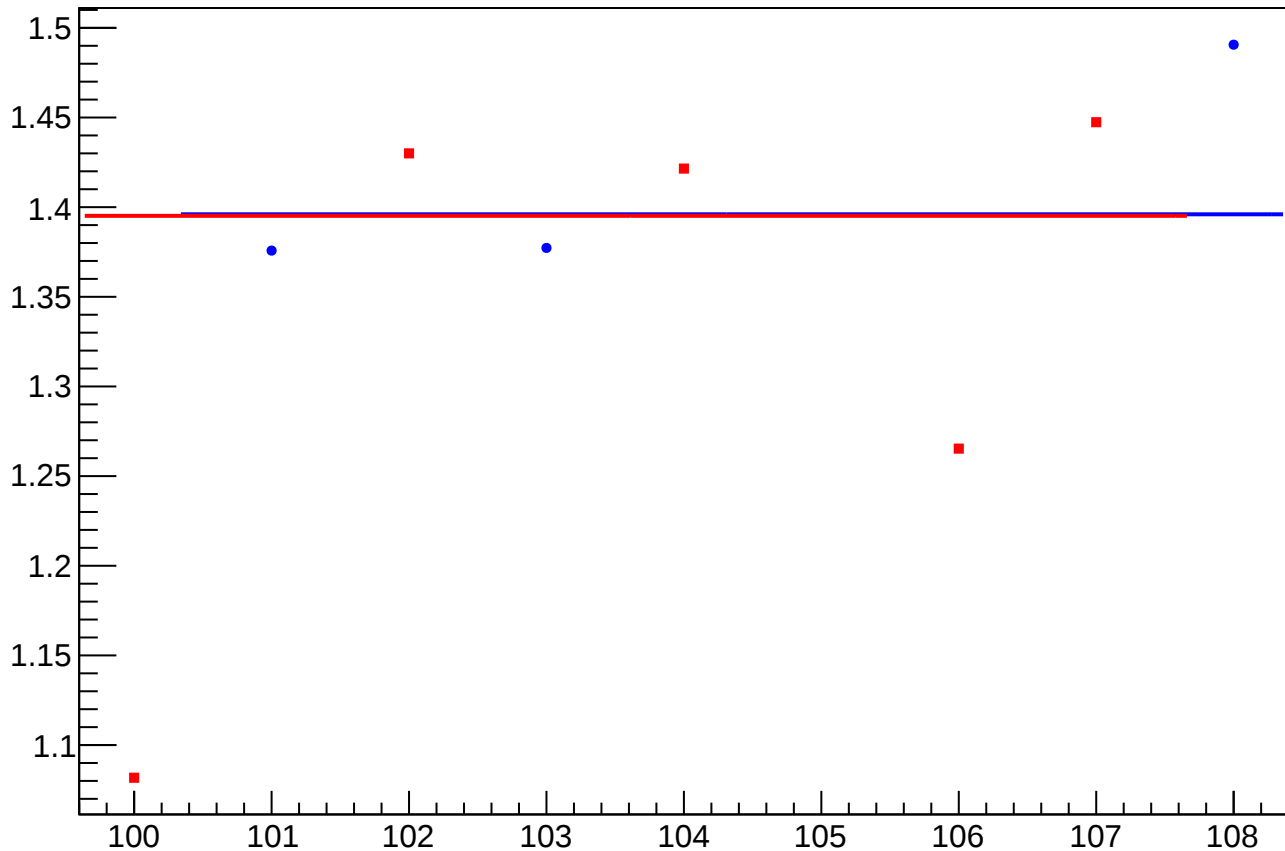
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 129888.7/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_bpm1i02Y\_mean vs Slug



Right In: 1.396+/-0.000  $\chi^2/\text{NDF}$ : 73069175.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.395+/-0.000  $\chi^2/\text{NDF}$ : 279710858.1/4

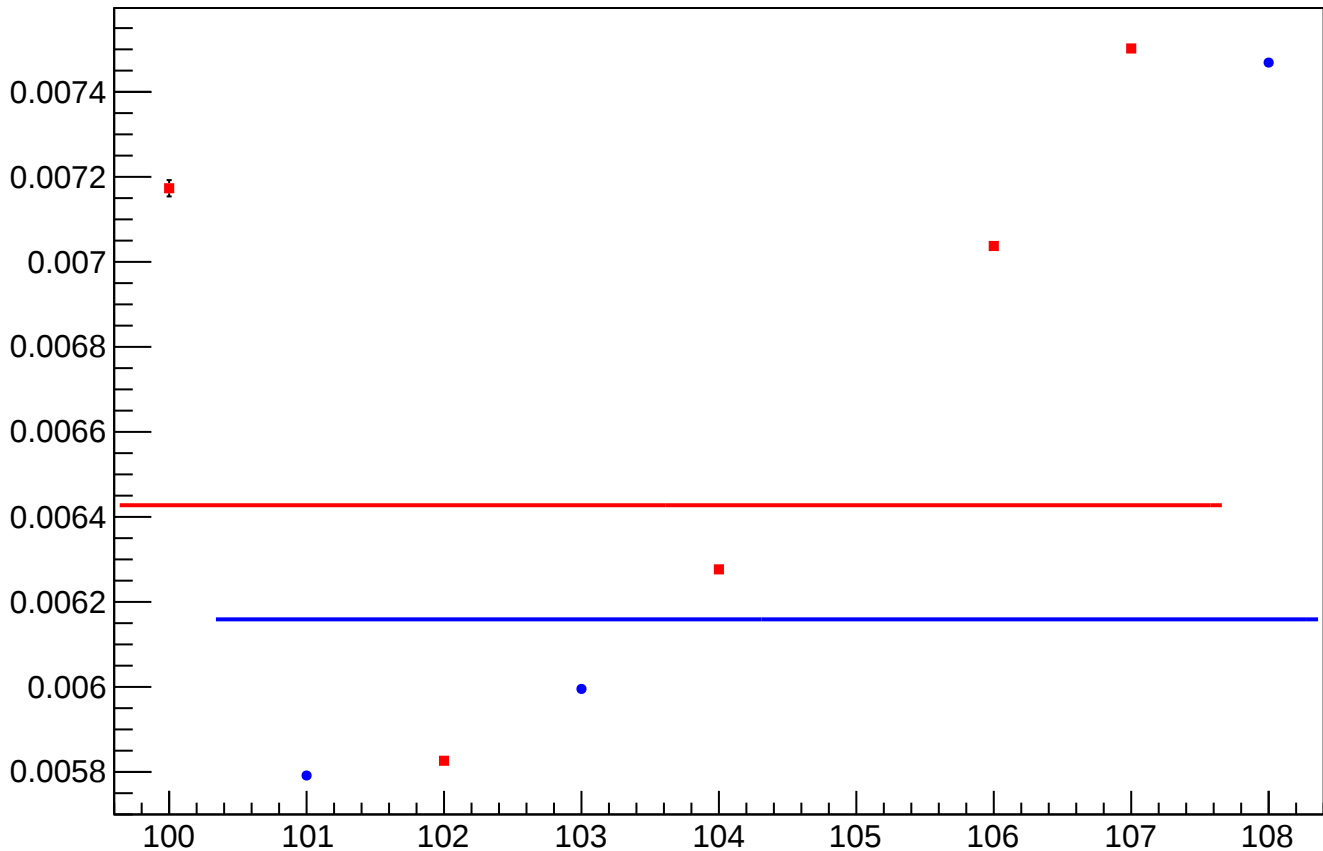
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.396+/-0.000  $\chi^2/\text{NDF}$ : 352794804.2/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02Y\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 28693.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 32525.9/4

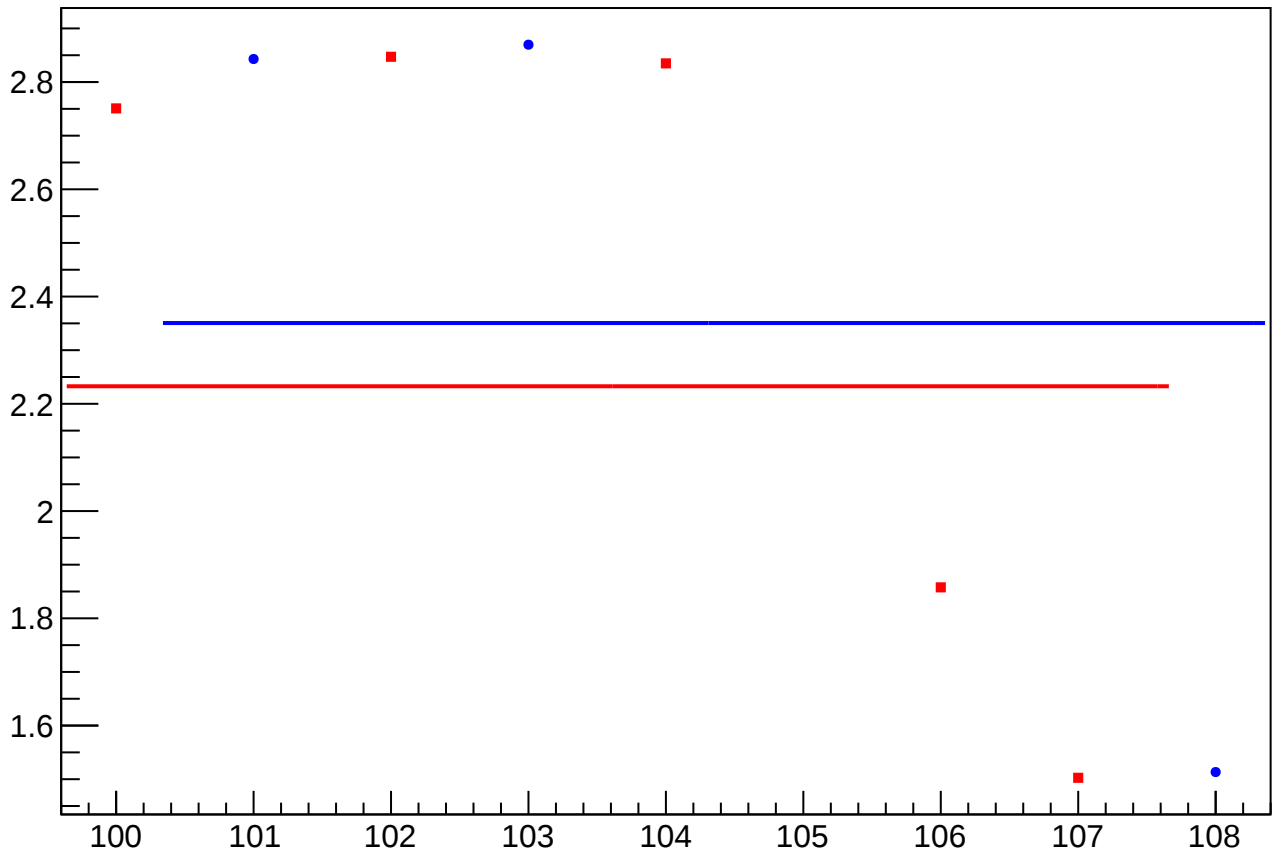
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 64153.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04X\_mean vs Slug



Right In: 2.351+/-0.000  $\chi^2/\text{NDF}$ : 11747709552.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.233+/-0.000  $\chi^2/\text{NDF}$ : 11890455333.6/4

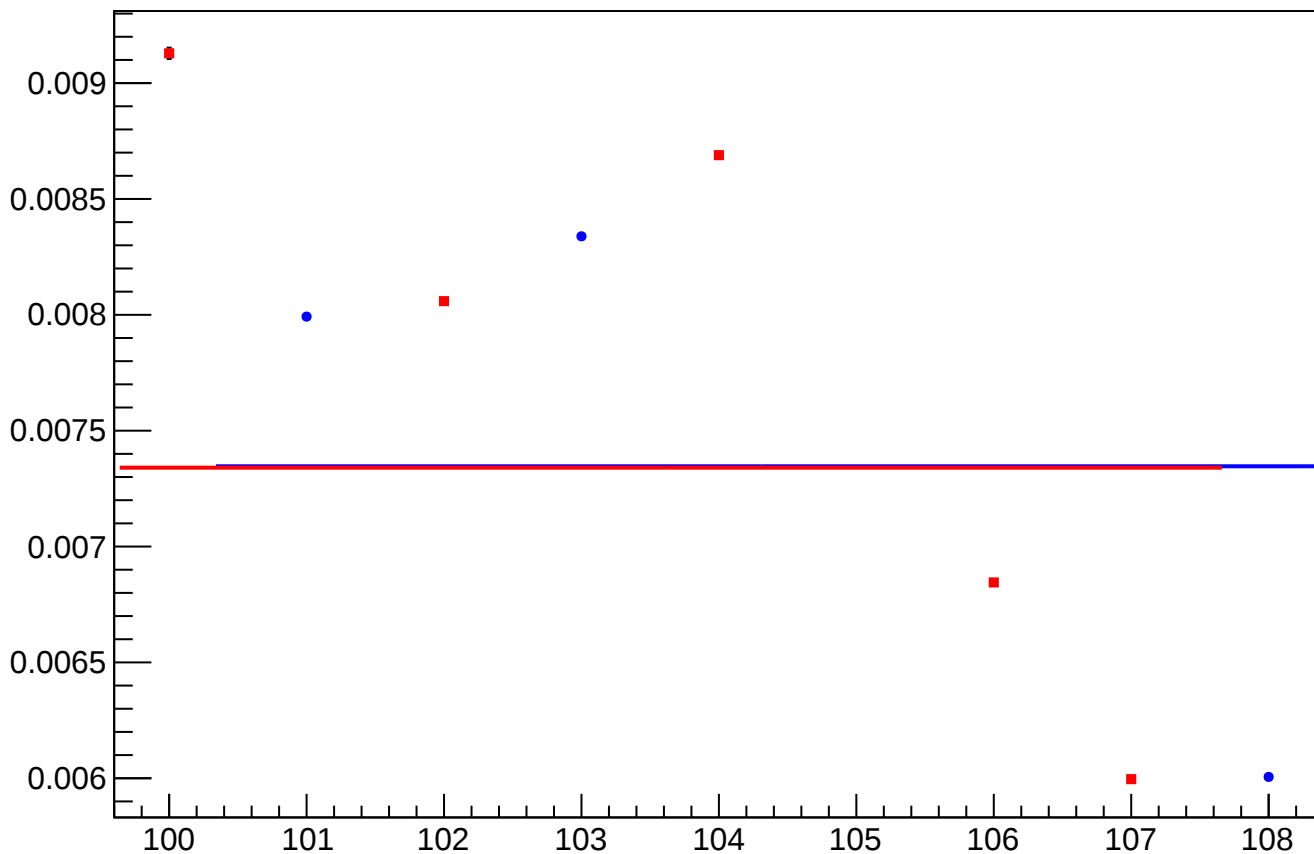
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.288+/-0.000  $\chi^2/\text{NDF}$ : 23844439977.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 61252.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 76458.4/4

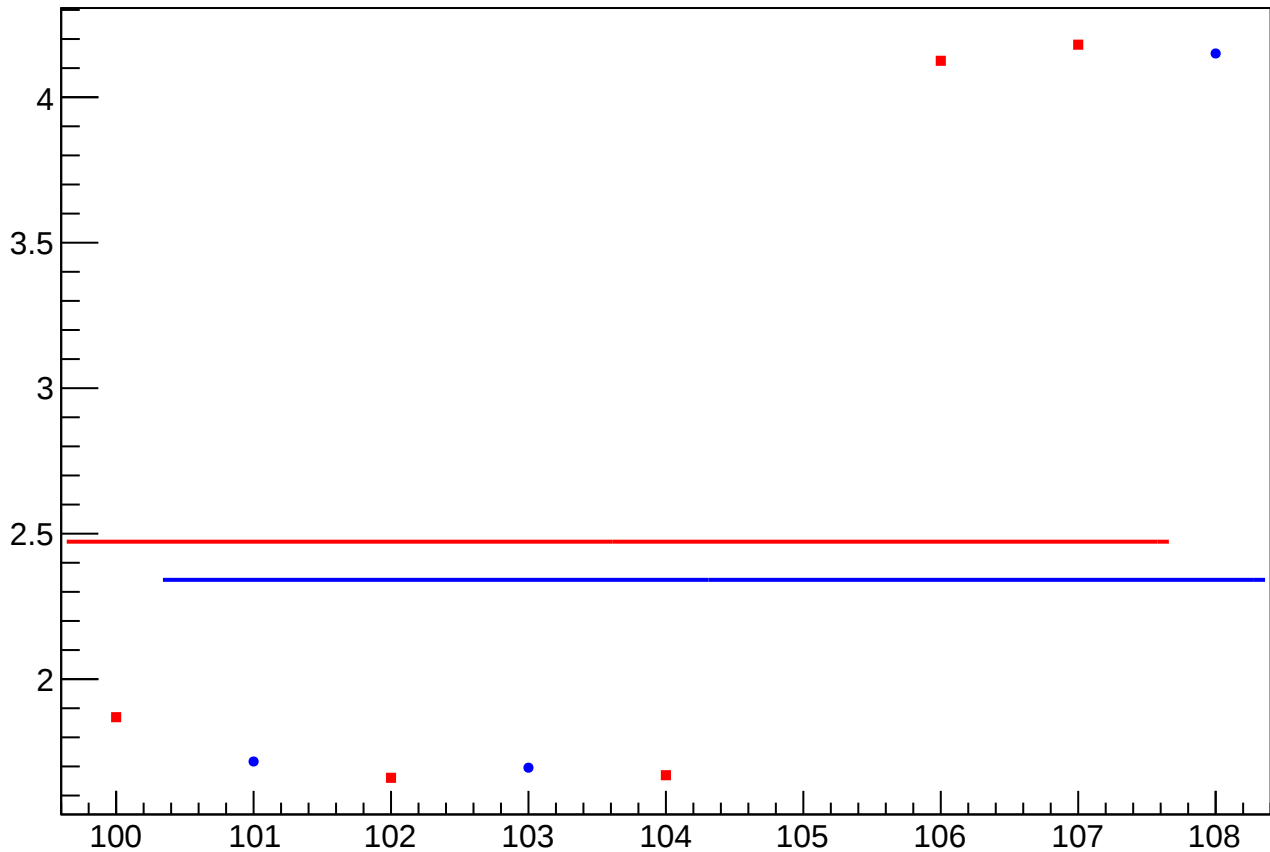
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 137711.7/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04Y\_mean vs Slug



Right In: 2.341+/-0.000  $\chi^2/\text{NDF}$ : 63915594922.6/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.472+/-0.000  $\chi^2/\text{NDF}$ : 78867758360.6/4

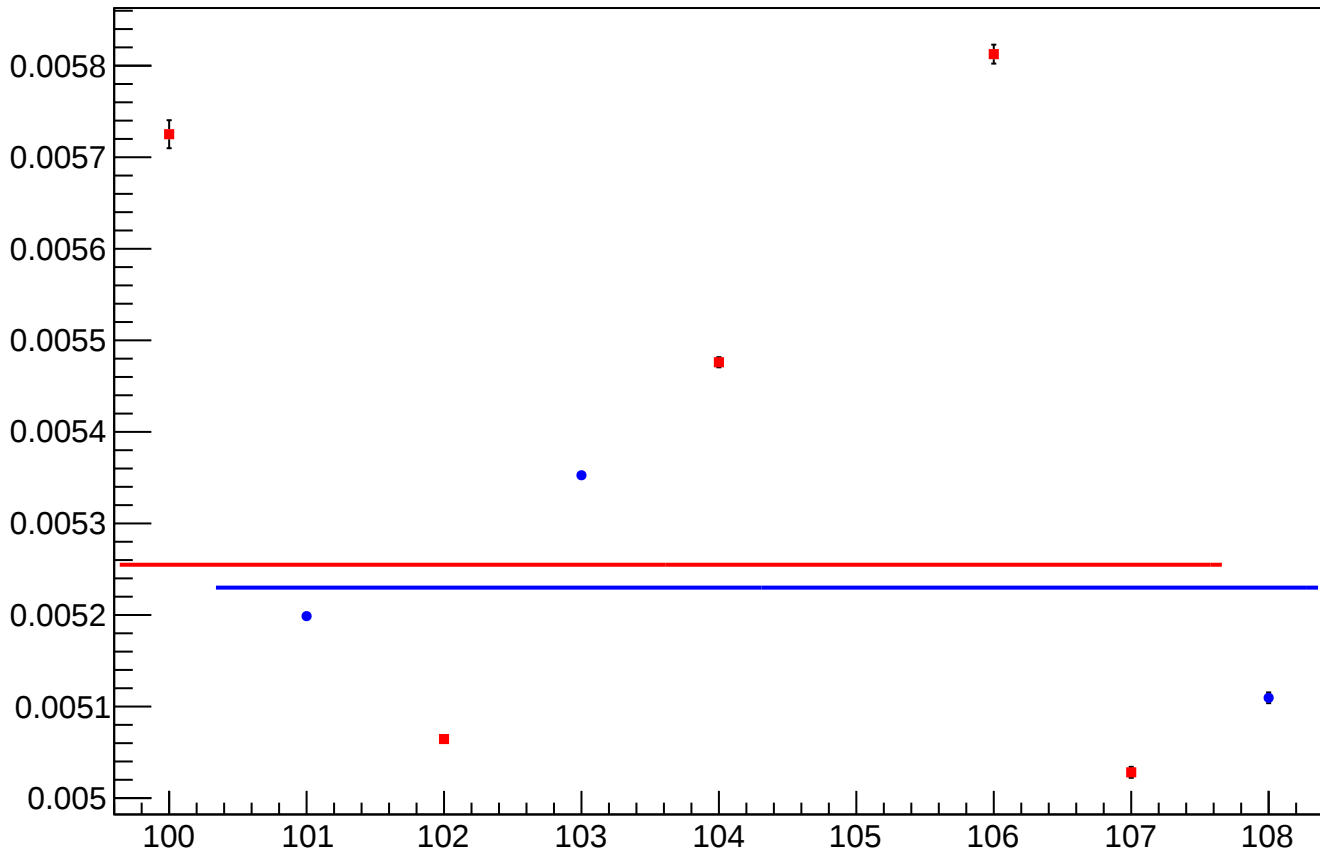
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.408+/-0.000  $\chi^2/\text{NDF}$ : 143273504156.4

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04Y\_rms vs Slug



Right In: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 1052.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 8427.5/4

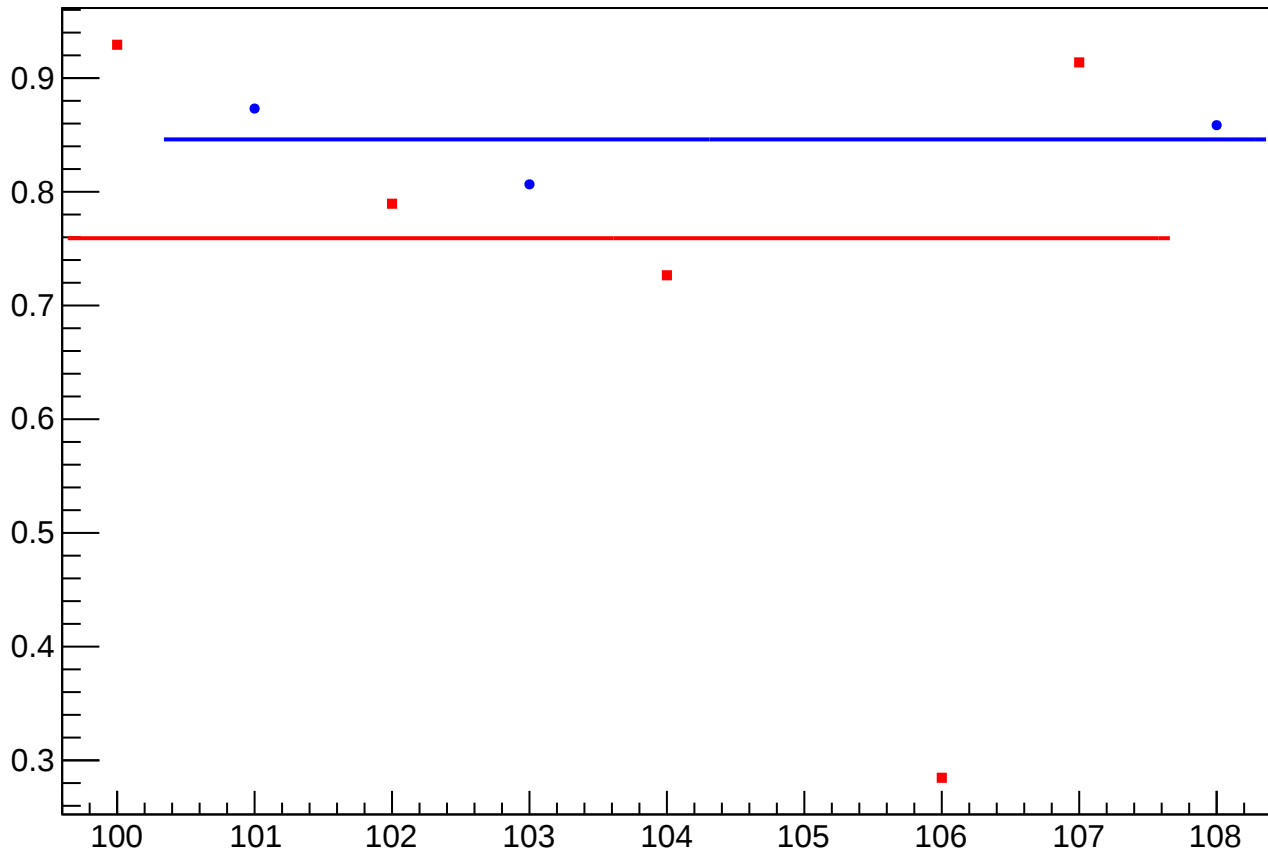
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.005 $\pm$ 0.000  $\chi^2$ /NDF: 9515.5/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i06X\_mean vs Slug



Right In: 0.846 $\pm$ 0.000  $\chi^2$ /NDF: 6185536.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.759 $\pm$ 0.000  $\chi^2$ /NDF: 226176356.7/4

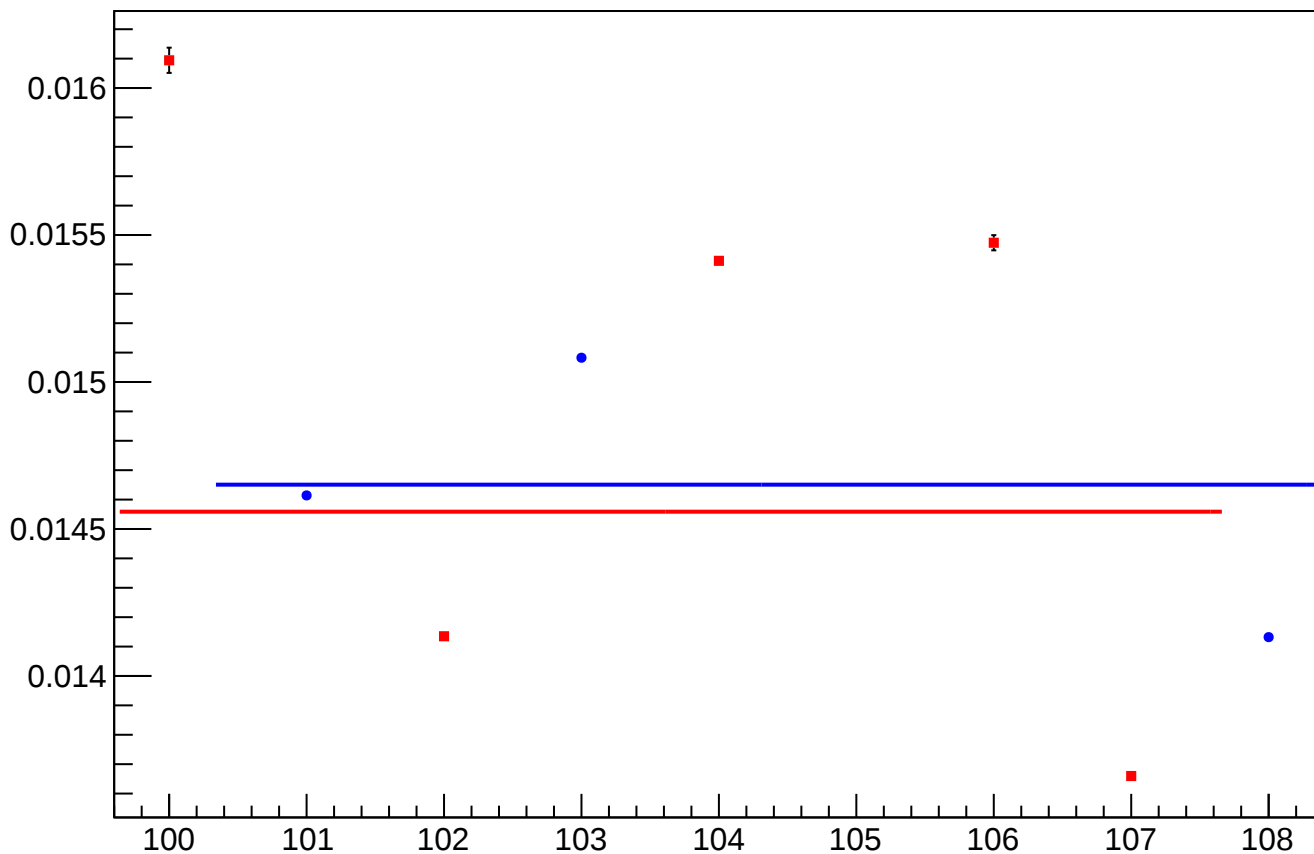
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.801 $\pm$ 0.000  $\chi^2$ /NDF: 260263667.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1i06X\_rms vs Slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 1938.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 9579.8/4

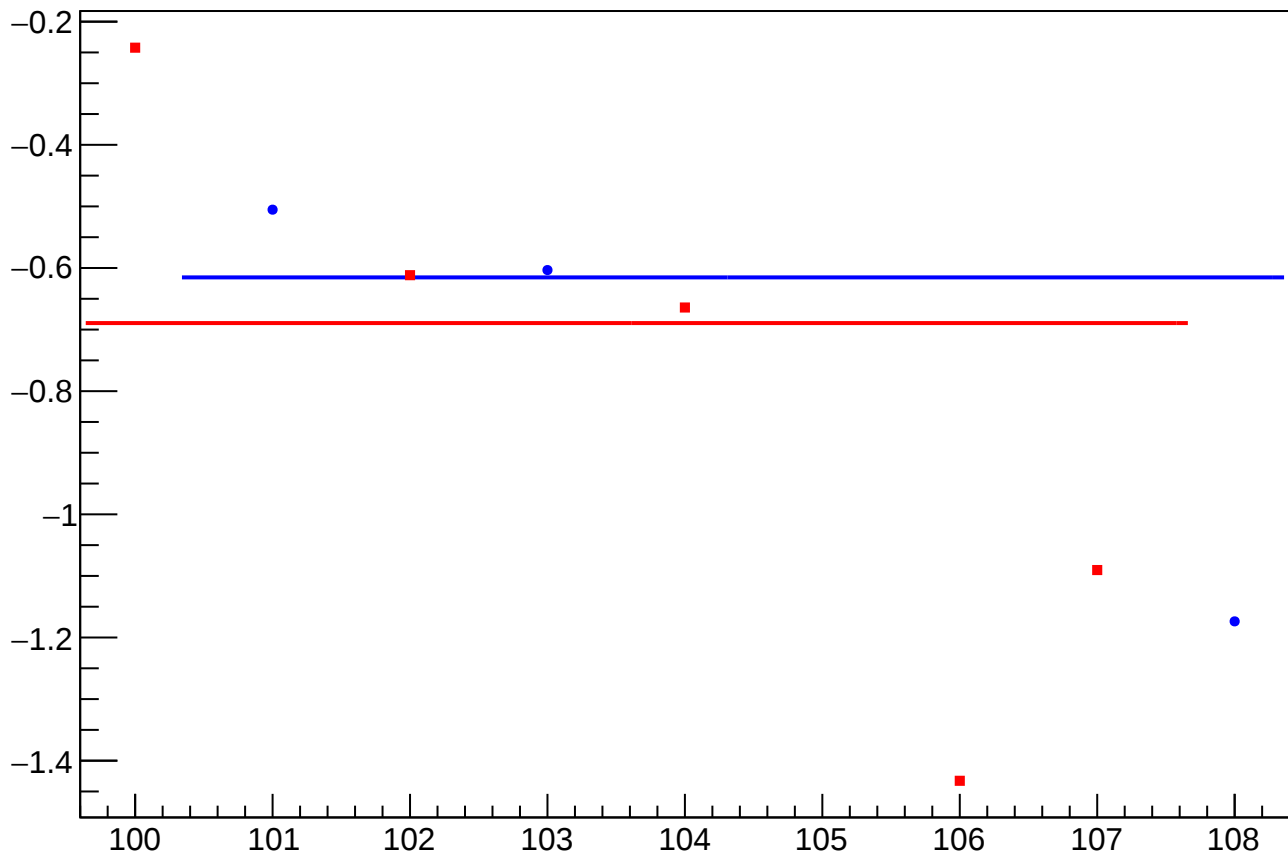
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 11580.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06Y\_mean vs Slug



Right In: -0.615+/-0.000  $\chi^2/\text{NDF}$ : 2892810456.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.689+/-0.000  $\chi^2/\text{NDF}$ : 3673774637.9/4

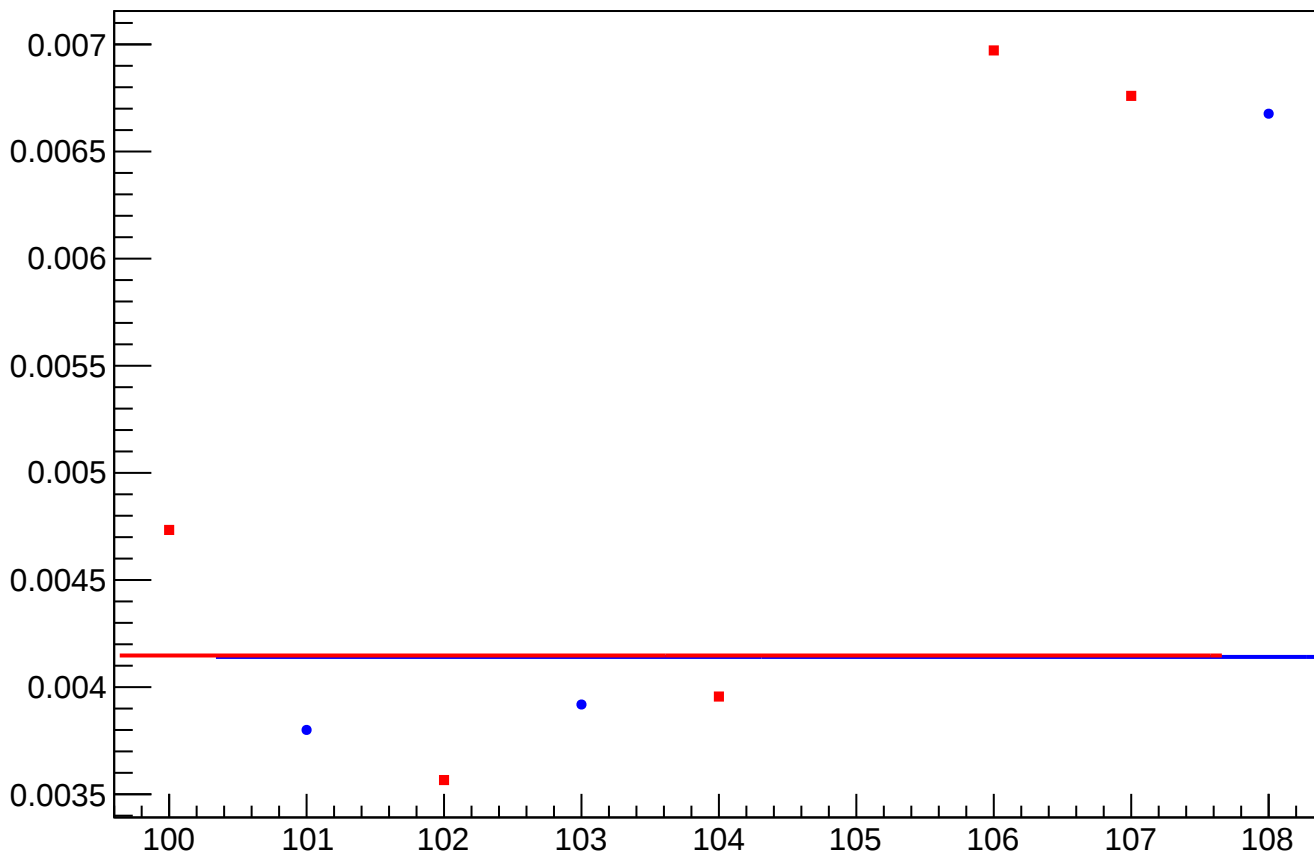
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.653+/-0.000  $\chi^2/\text{NDF}$ : 6787829584.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 112759.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 179237.6/4

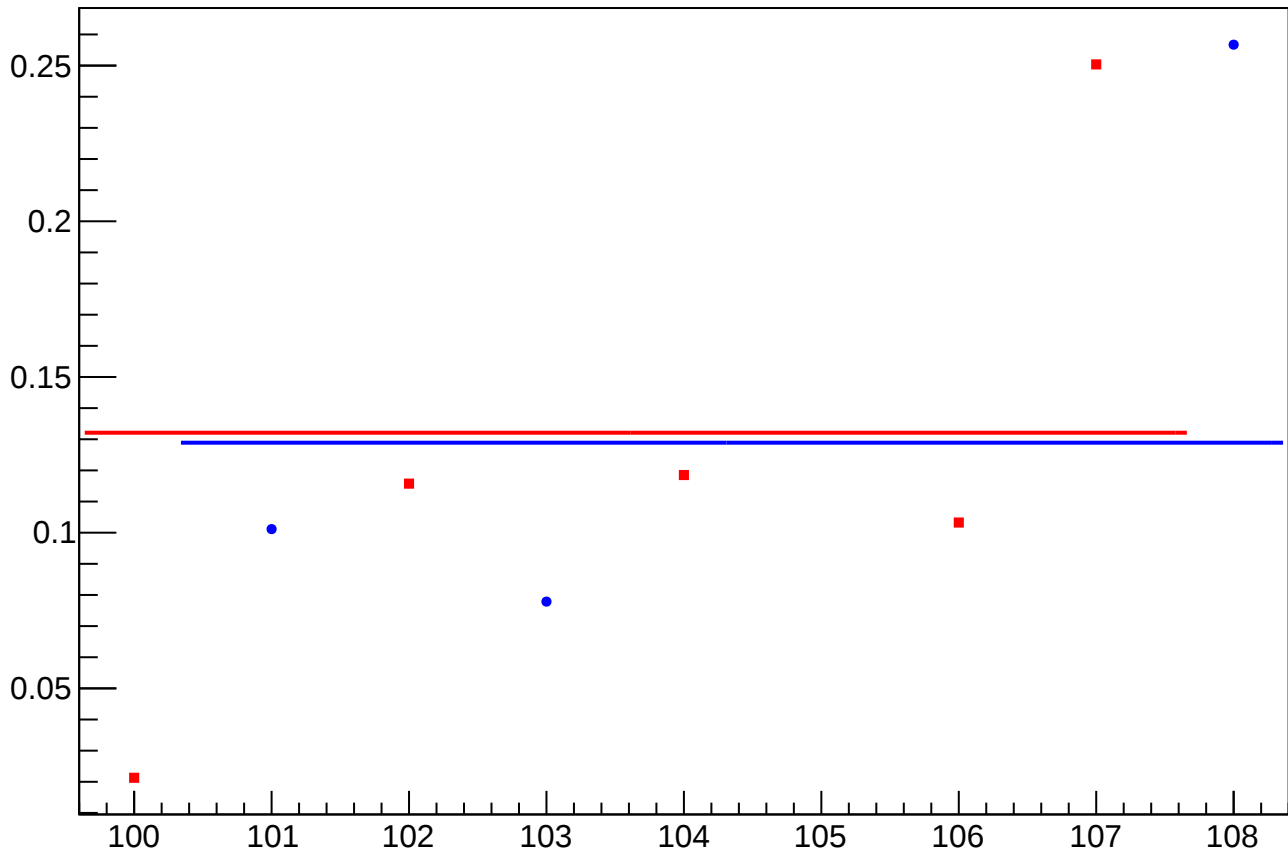
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 292000.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01X\_mean vs Slug



Right In: 0.129 $\pm$ 0.000  $\chi^2$ /NDF: 2981214612.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.132 $\pm$ 0.000  $\chi^2$ /NDF: 2435514329.4/4

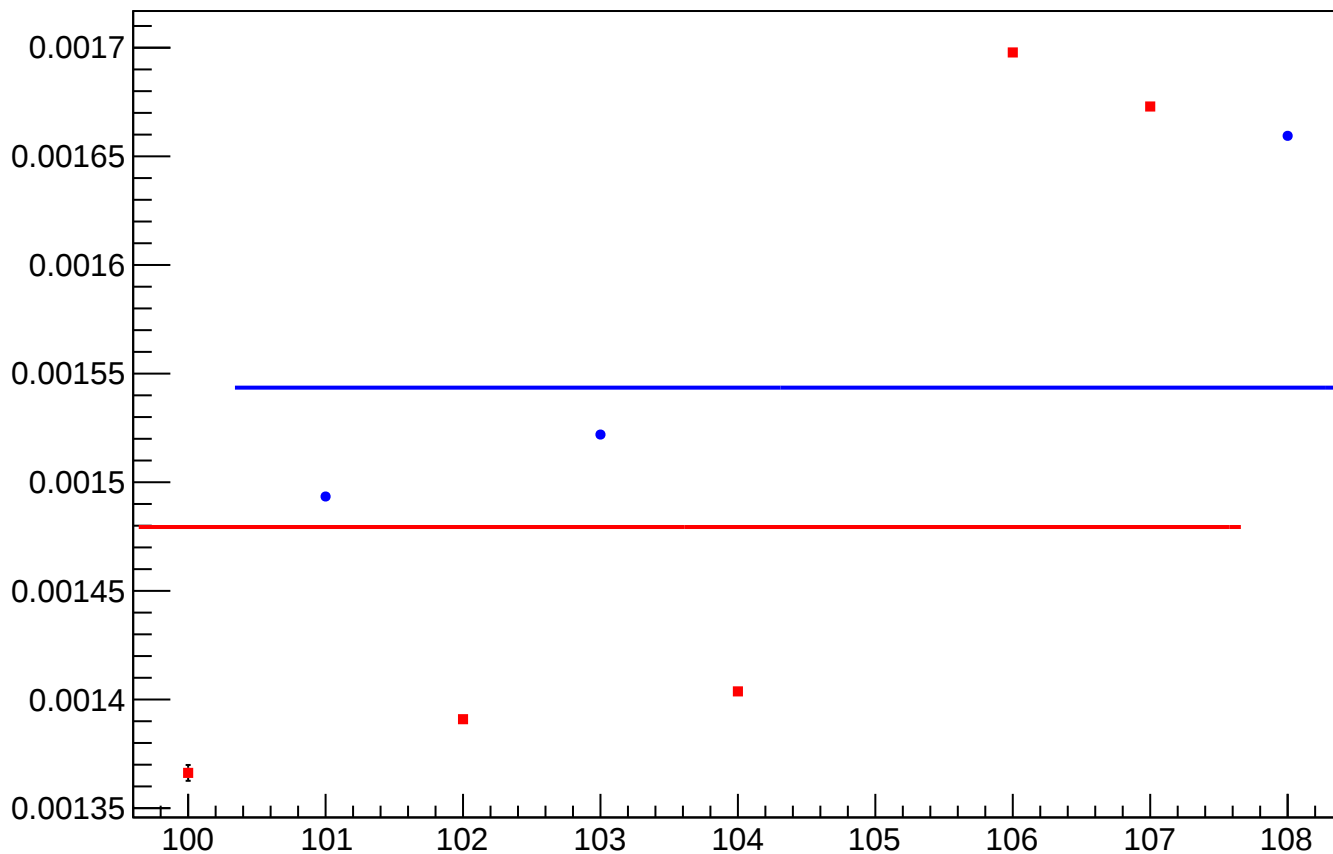
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.131 $\pm$ 0.000  $\chi^2$ /NDF: 5420151987.8/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i01X\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 4983.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.001+/-0.000  $\chi^2/\text{NDF}$ : 27361.1/4

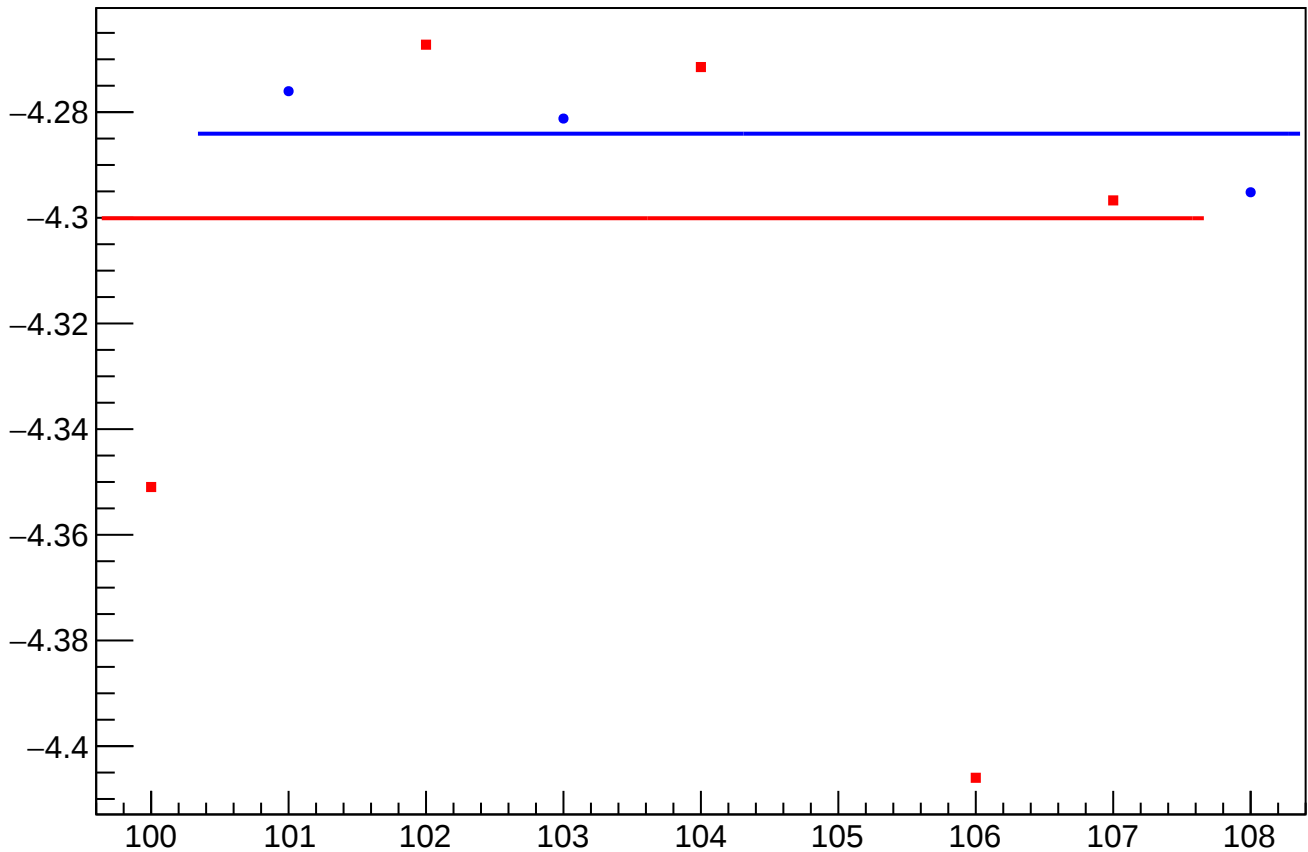
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 35087.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01Y\_mean vs Slug



Right In: -4.284+/-0.000  $\chi^2/\text{NDF}$ : 29587966.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

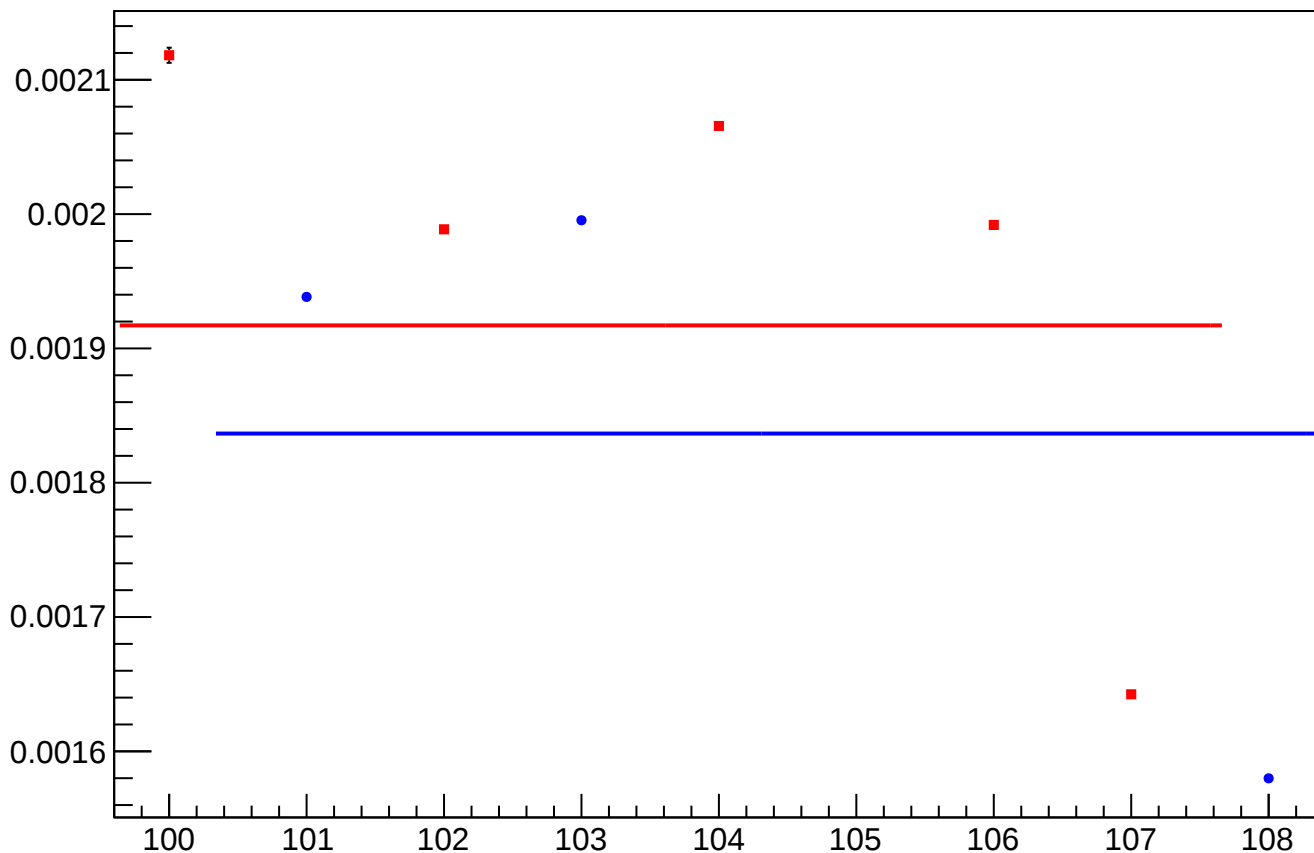
Right Out: -4.300+/-0.000  $\chi^2/\text{NDF}$ : 1074846799.1/4

All: -4.292+/-0.000  $\chi^2/\text{NDF}$ : 1162967127.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 30080.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 27936.7/4

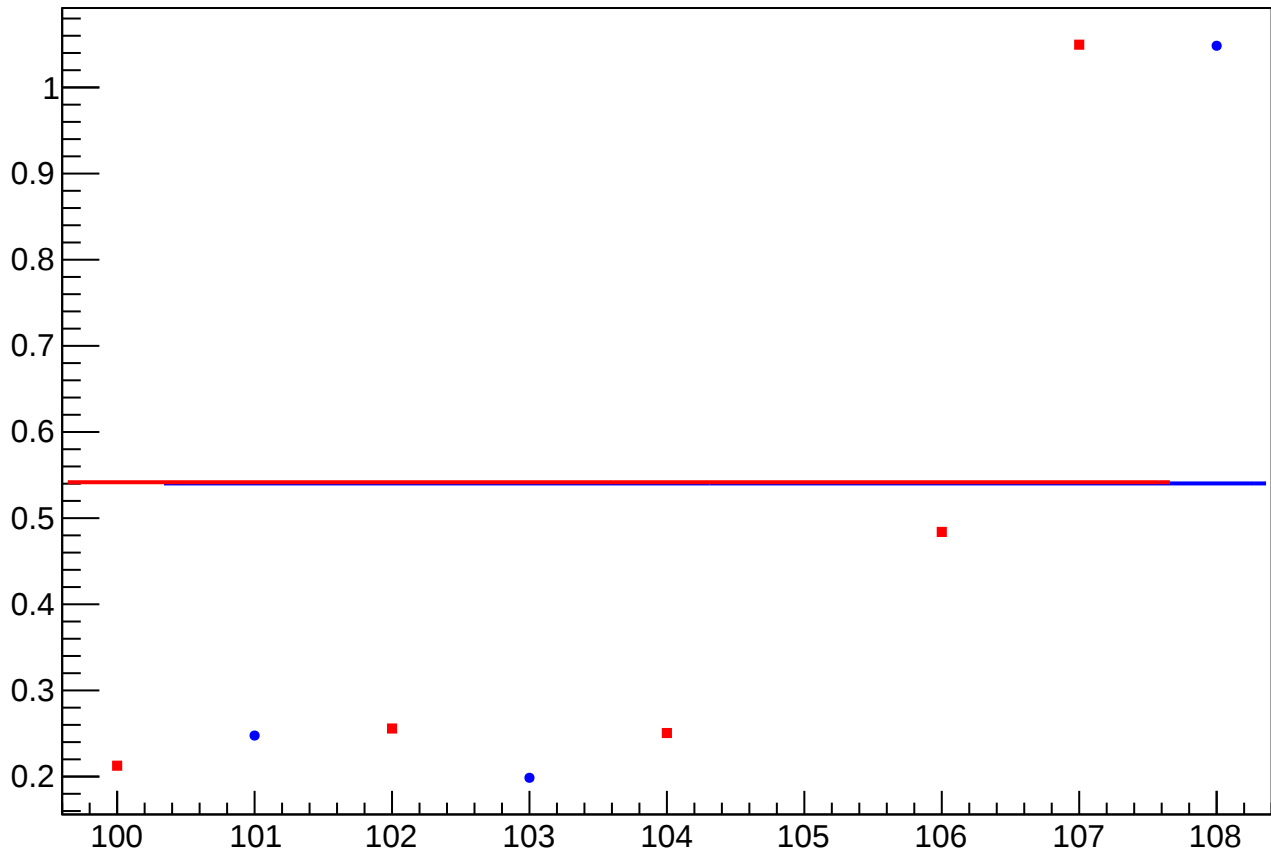
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 60981.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02X\_mean vs Slug



Right In: 0.540+/-0.000  $\chi^2/\text{NDF}$ : 3810046953.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.542+/-0.000  $\chi^2/\text{NDF}$ : 3406355017.0/4

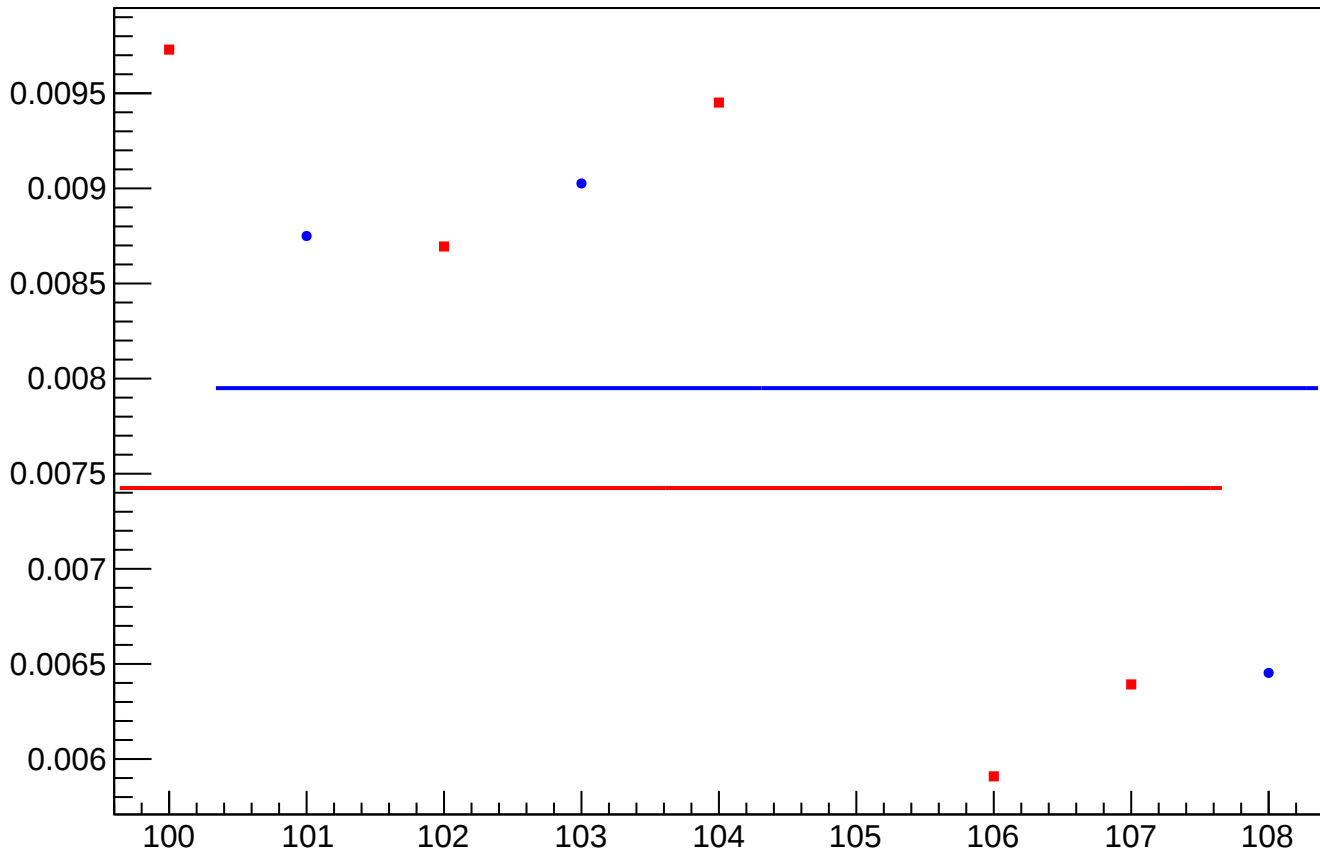
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.541+/-0.000  $\chi^2/\text{NDF}$ : 7216427986.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02X\_rms vs Slug



Right In: 0.008 $\pm$ 0.000  $\chi^2$ /NDF: 66554.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.007 $\pm$ 0.000  $\chi^2$ /NDF: 134527.3/4

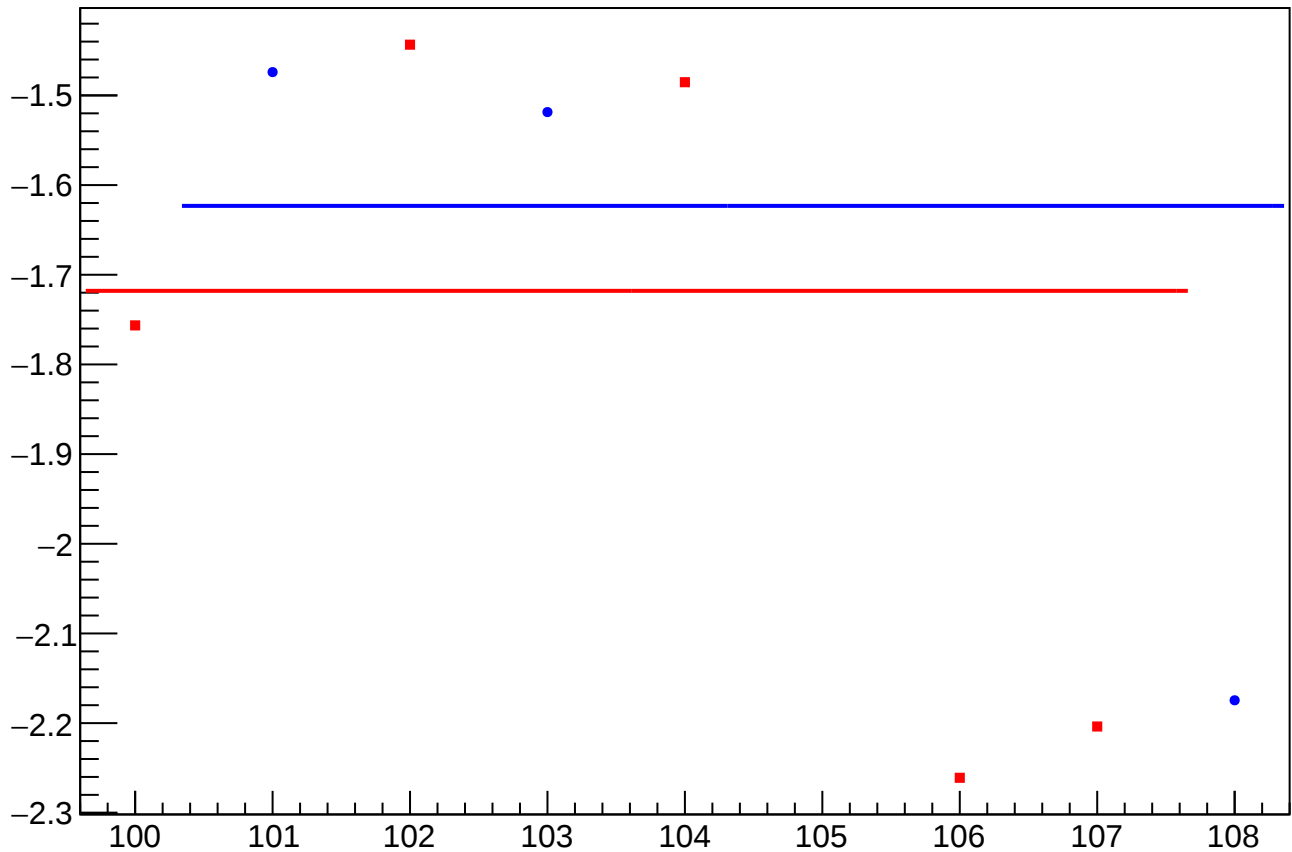
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.008 $\pm$ 0.000  $\chi^2$ /NDF: 208464.2/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm2i02Y\_mean vs Slug



Right In: -1.623+/-0.000  $\chi^2/\text{NDF}$ : 3160927791.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.718+/-0.000  $\chi^2/\text{NDF}$ : 6038781000.6/4

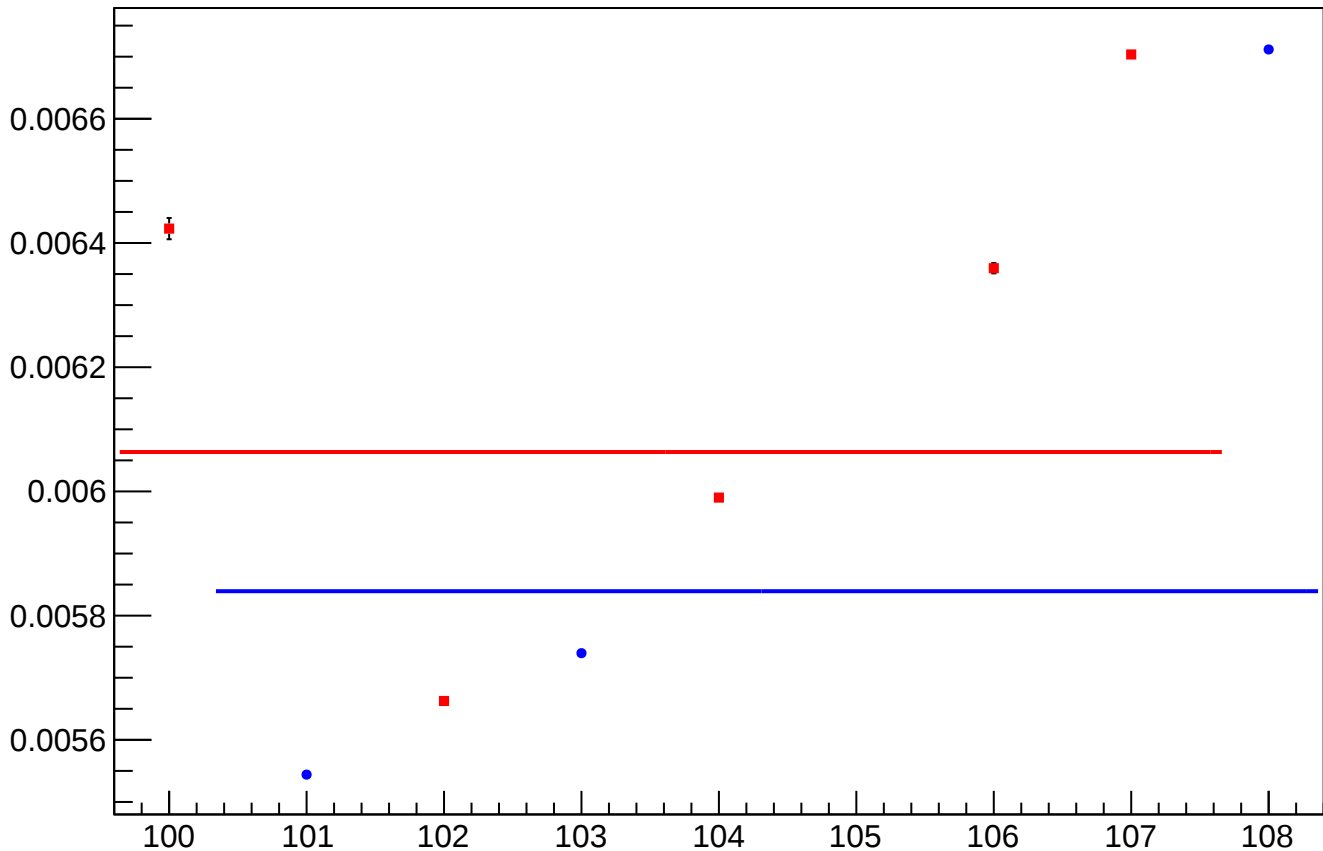
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.672+/-0.000  $\chi^2/\text{NDF}$ : 9406226282.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02Y\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 16423.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 13811.5/4

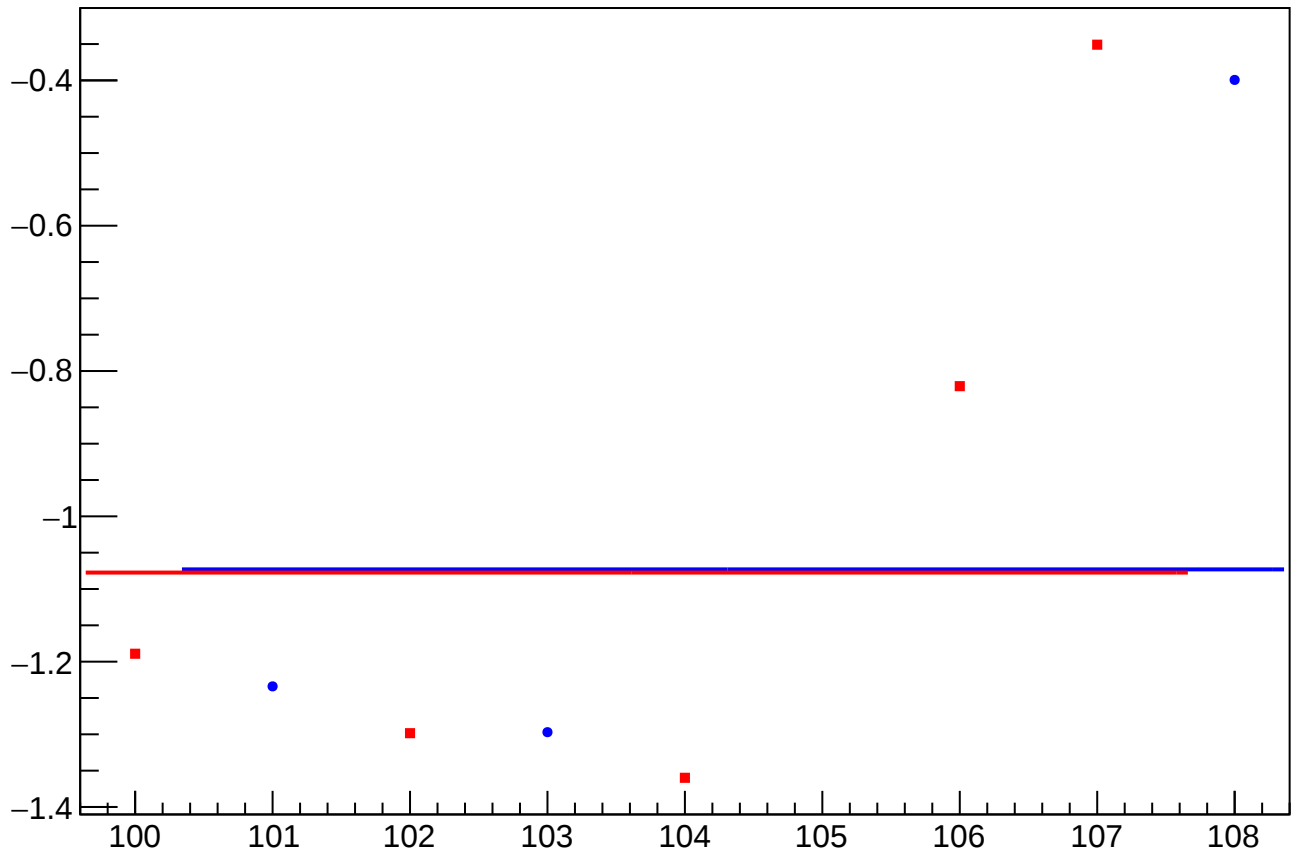
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 32545.8/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01X\_mean vs Slug



Right In: -1.073+/-0.000  $\chi^2/\text{NDF}$ : 1818317073.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.077+/-0.000  $\chi^2/\text{NDF}$ : 2415253436.1/4

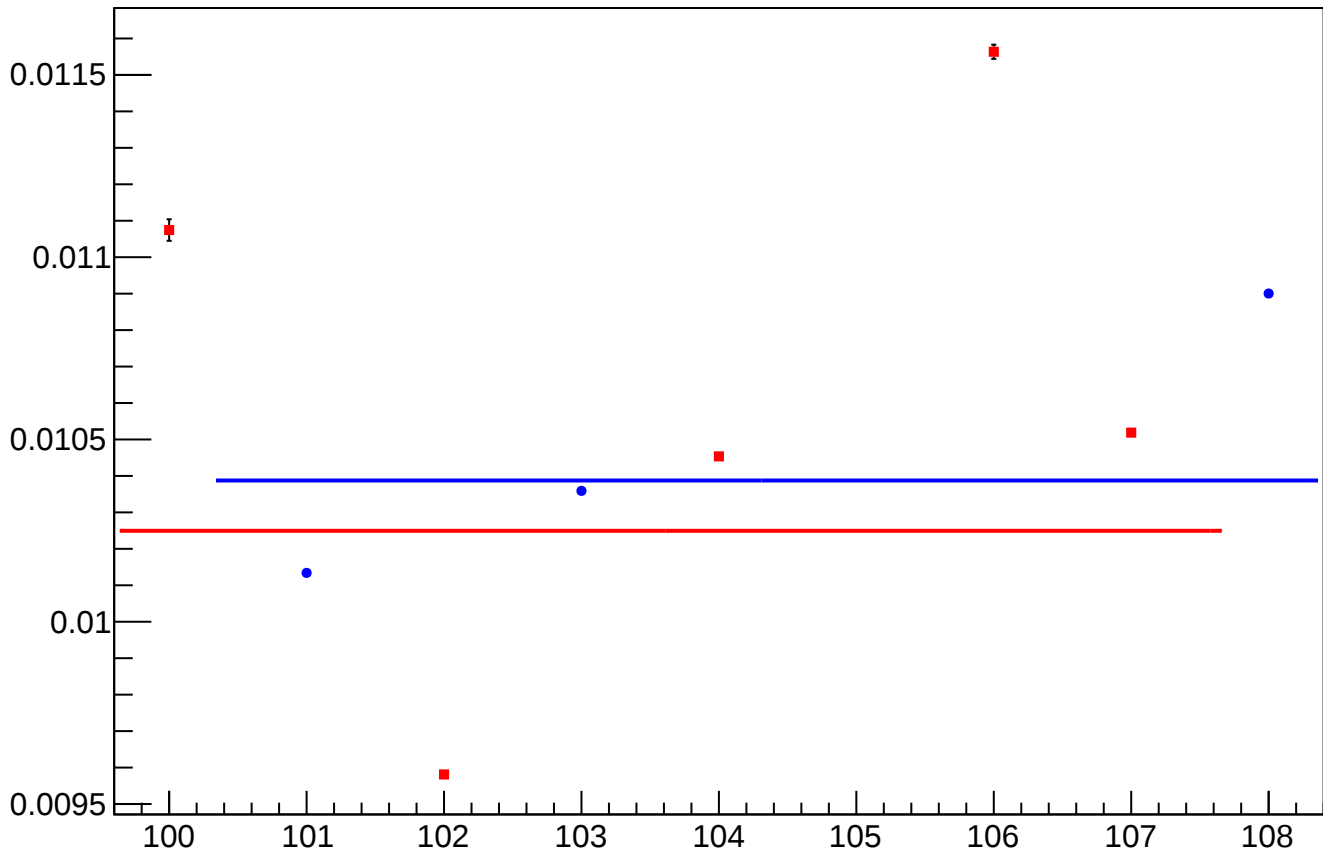
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.075+/-0.000  $\chi^2/\text{NDF}$ : 4233711476.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01X\_rms vs Slug



Right In: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 2371.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 11494.1/4

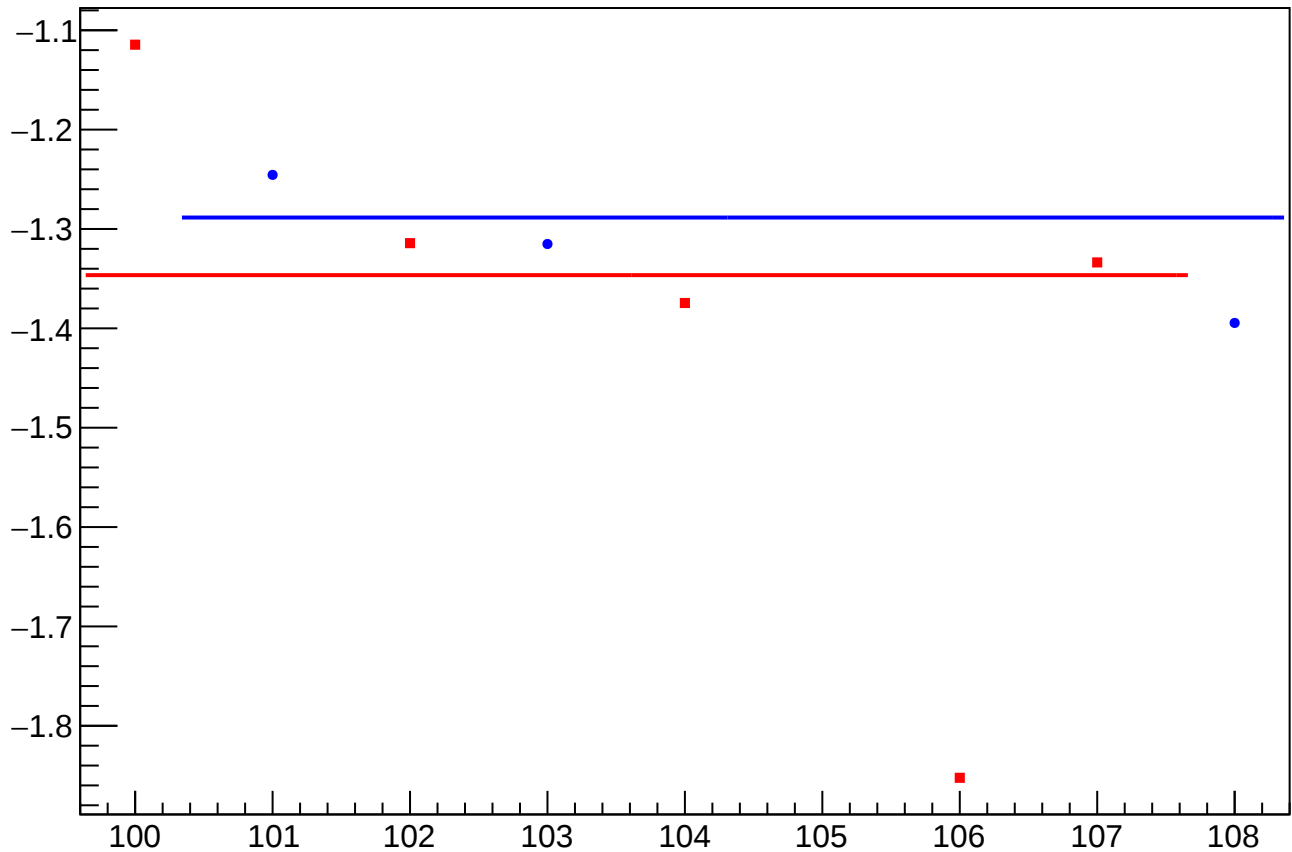
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 14146.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i01Y\_mean vs Slug



Right In: -1.288+/-0.000  $\chi^2/\text{NDF}$ : 845271130.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.346+/-0.000  $\chi^2/\text{NDF}$ : 4929116468.6/4

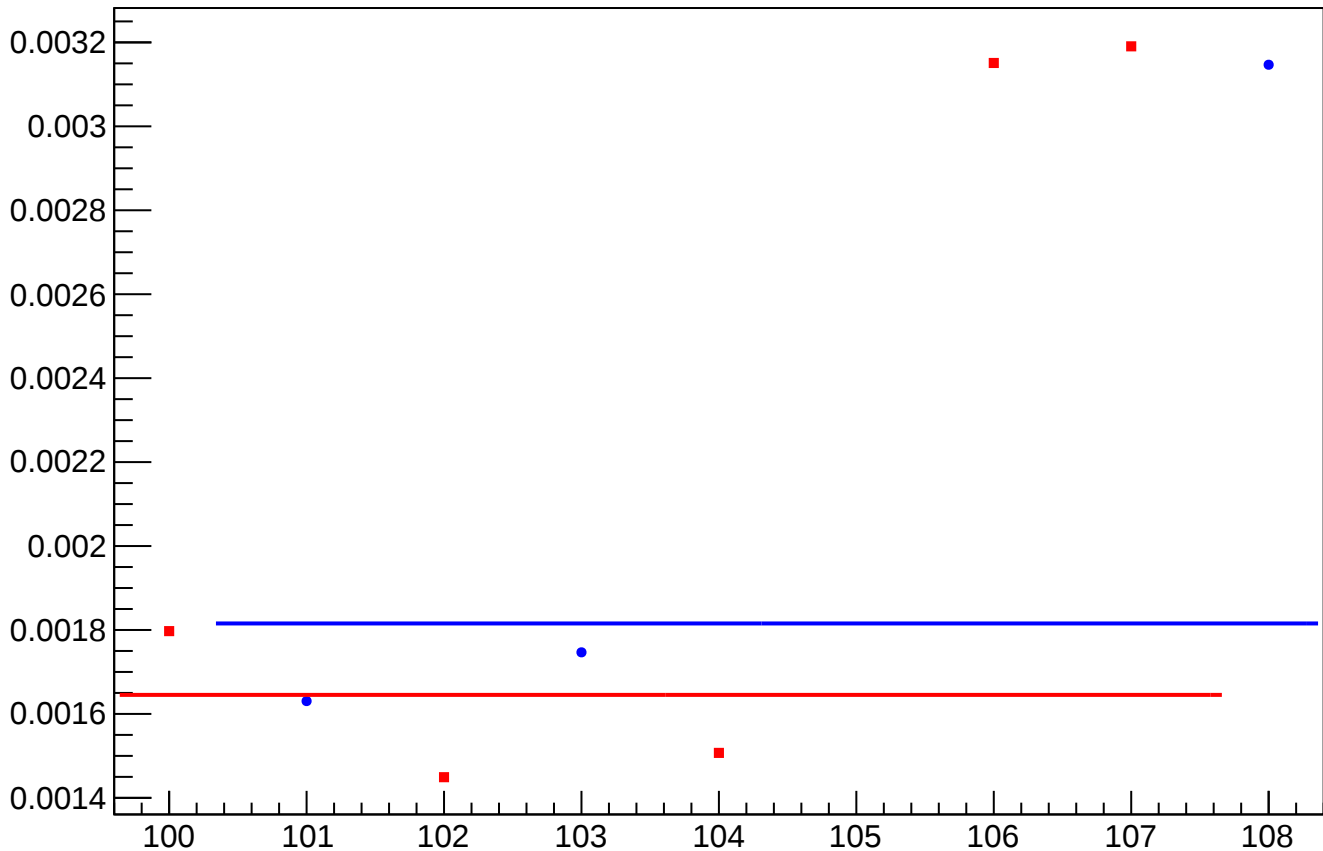
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.321+/-0.000  $\chi^2/\text{NDF}$ : 6498344289.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 135953.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 241546.6/4

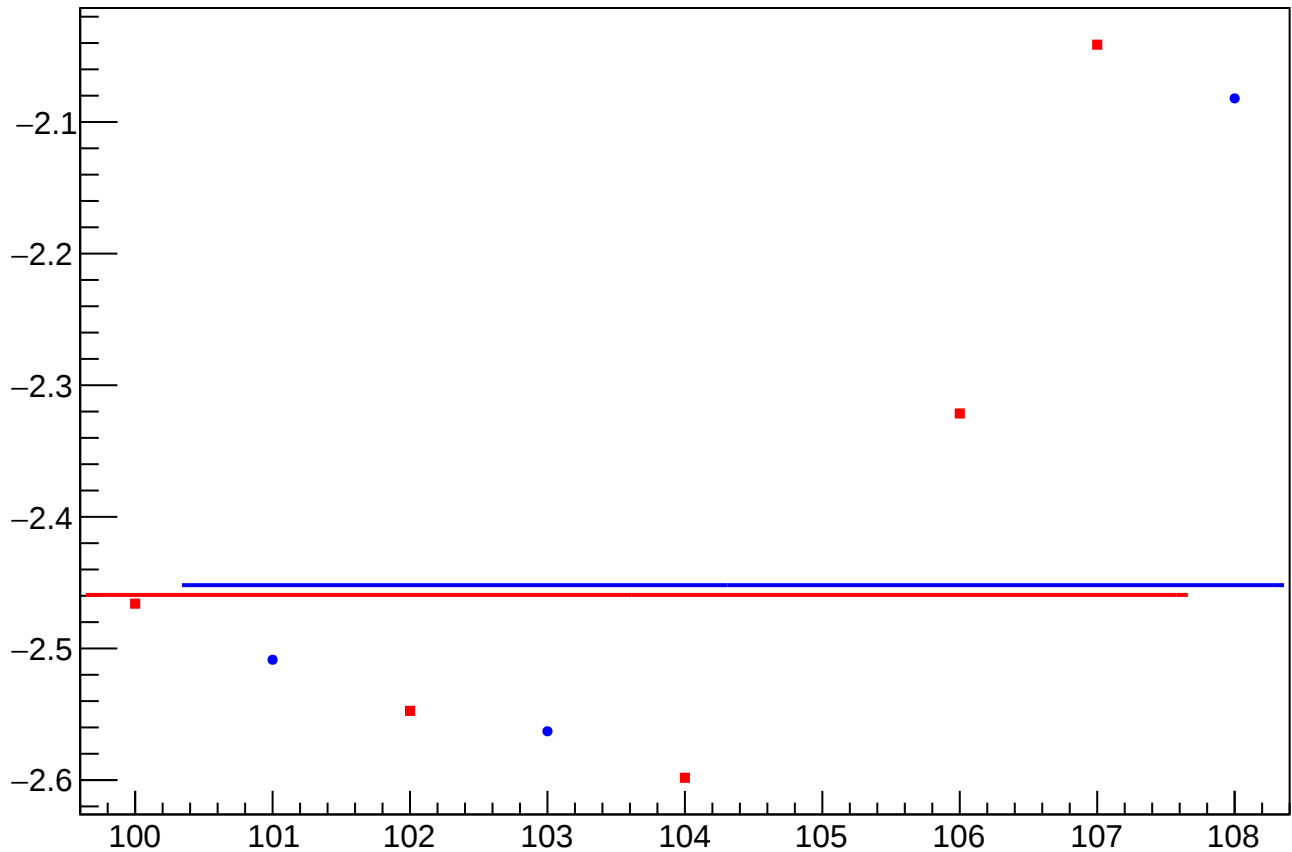
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 389973.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aX\_mean vs Slug



Right In: -2.452+/-0.000  $\chi^2/\text{NDF}$ : 1317969950.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.459+/-0.000  $\chi^2/\text{NDF}$ : 1867964781.2/4

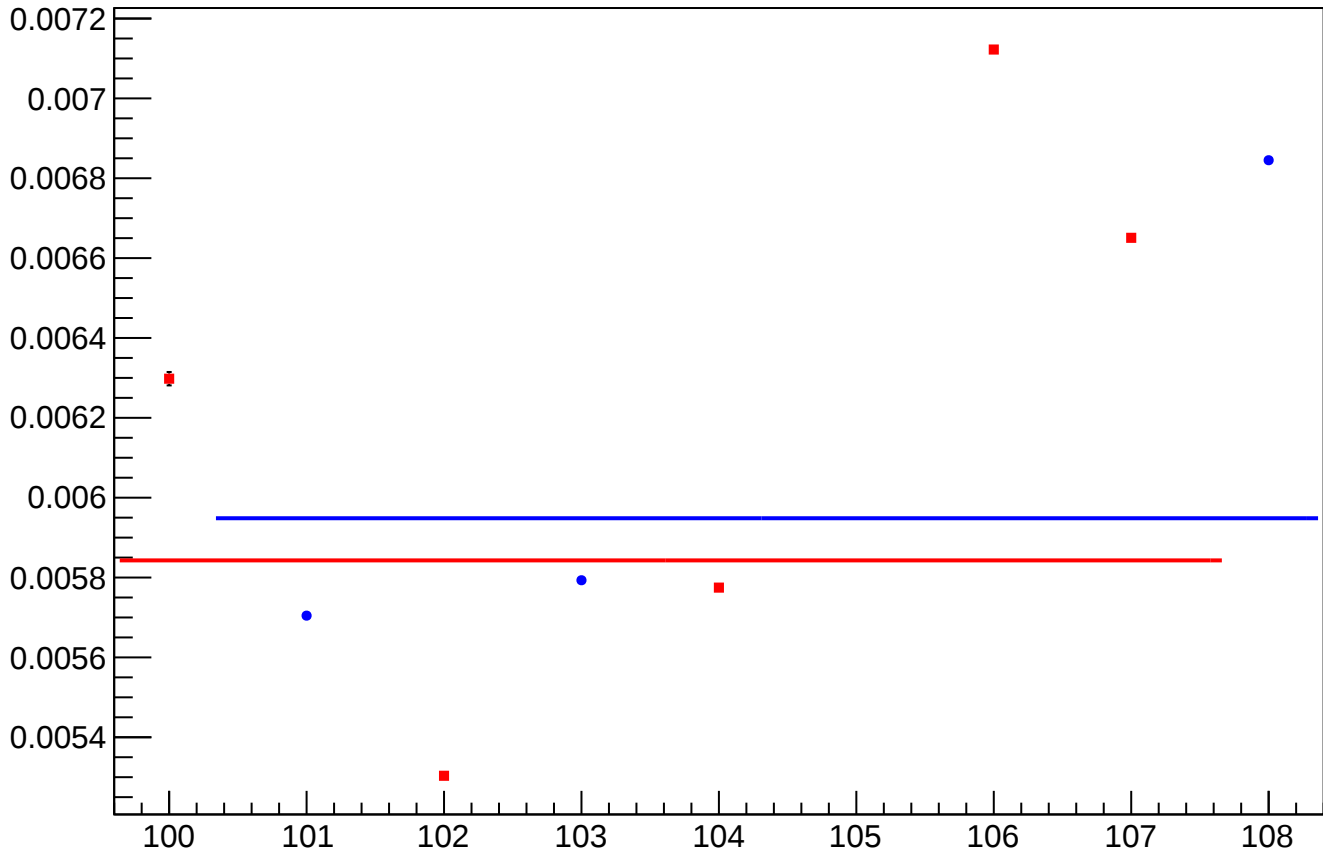
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.456+/-0.000  $\chi^2/\text{NDF}$ : 3187157581.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aX\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 15330.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 33453.8/4

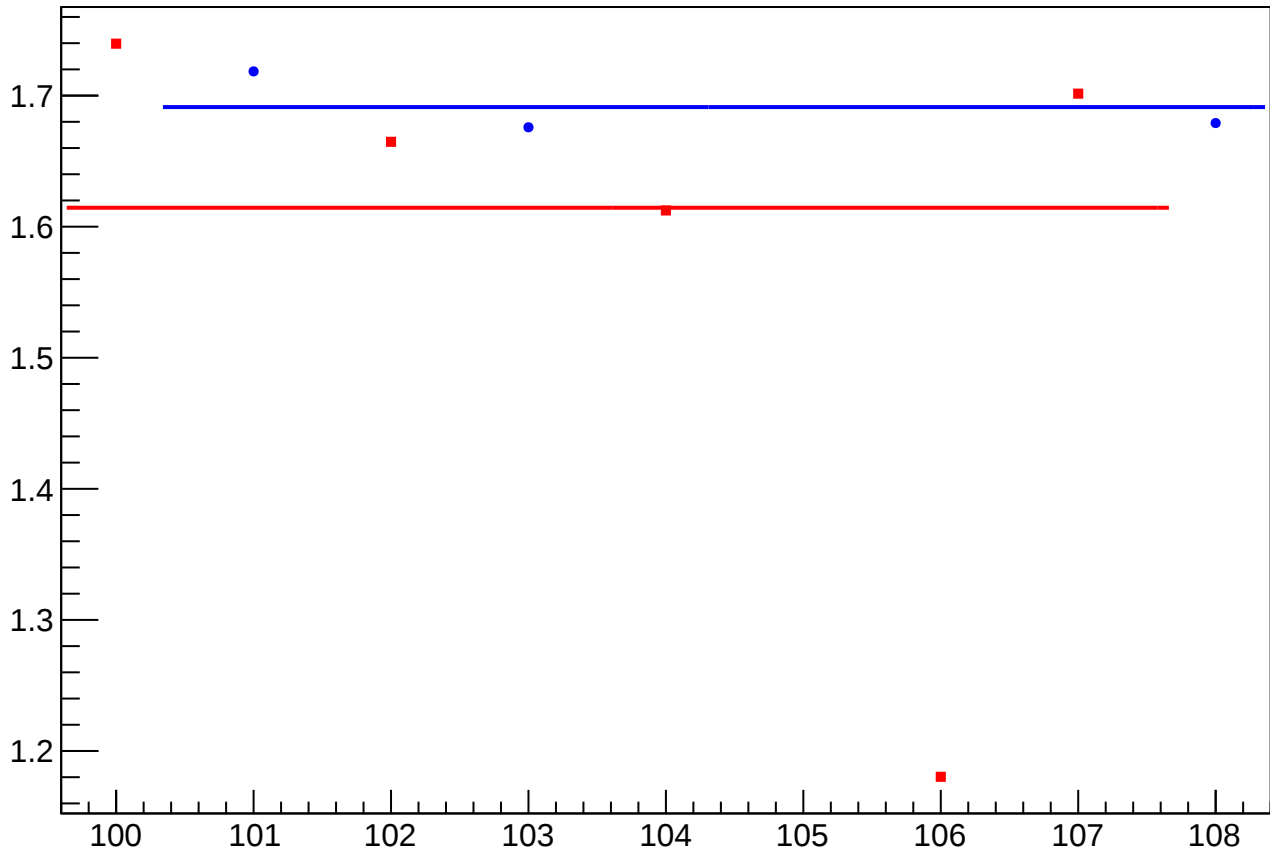
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 49279.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aY\_mean vs Slug



Right In: 1.691+/-0.000  $\chi^2/\text{NDF}$ : 113331041.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.614+/-0.000  $\chi^2/\text{NDF}$ : 7410583225.3/4

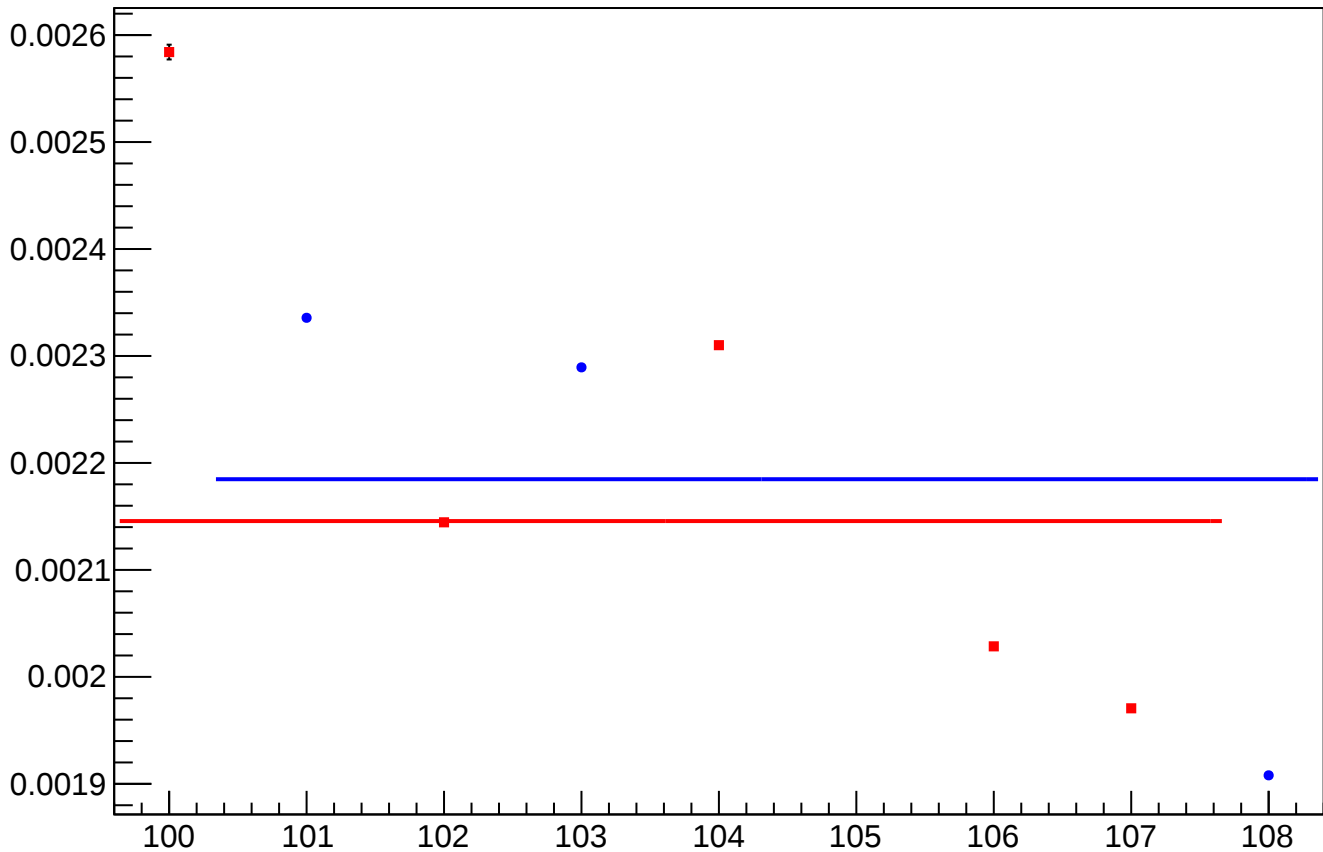
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.651+/-0.000  $\chi^2/\text{NDF}$ : 8455195283.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aY\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 21281.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 15042.6/4

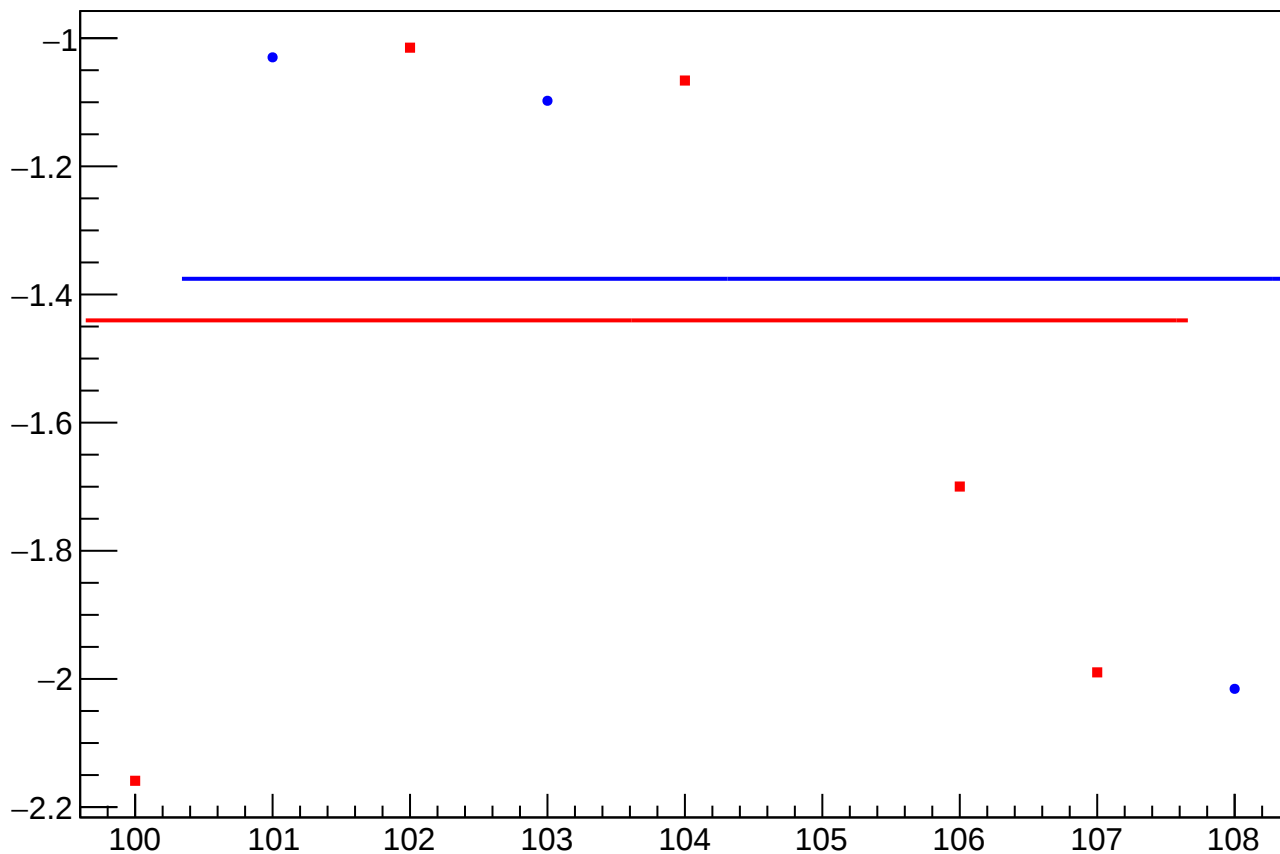
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 36807.9/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l01X\_mean vs Slug



Right In: -1.376+/-0.000  $\chi^2/\text{NDF}$ : 6370747696.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.440+/-0.000  $\chi^2/\text{NDF}$ : 7231101631.6/4

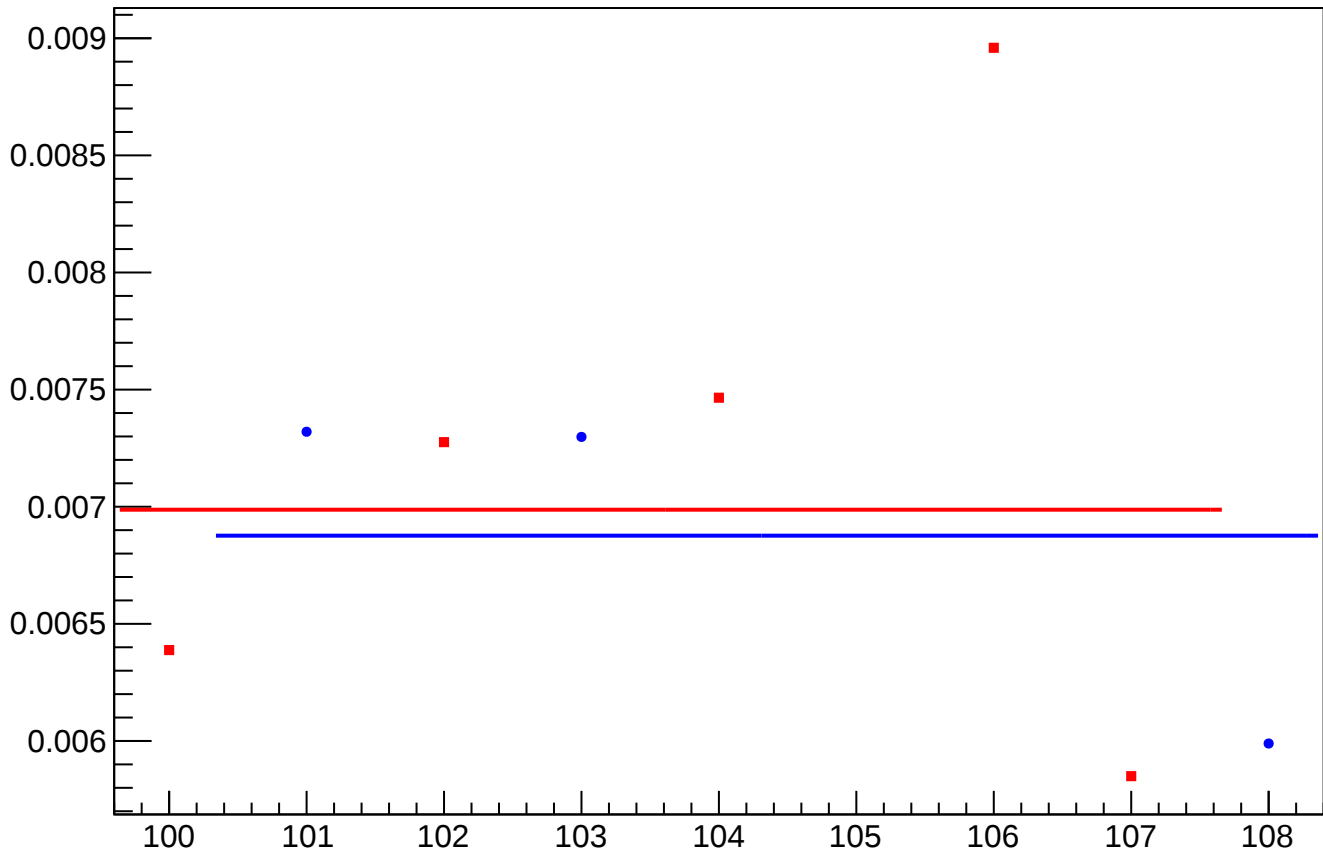
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.409+/-0.000  $\chi^2/\text{NDF}$ : 13670723566.7/8

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 24404.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 55368.8/4

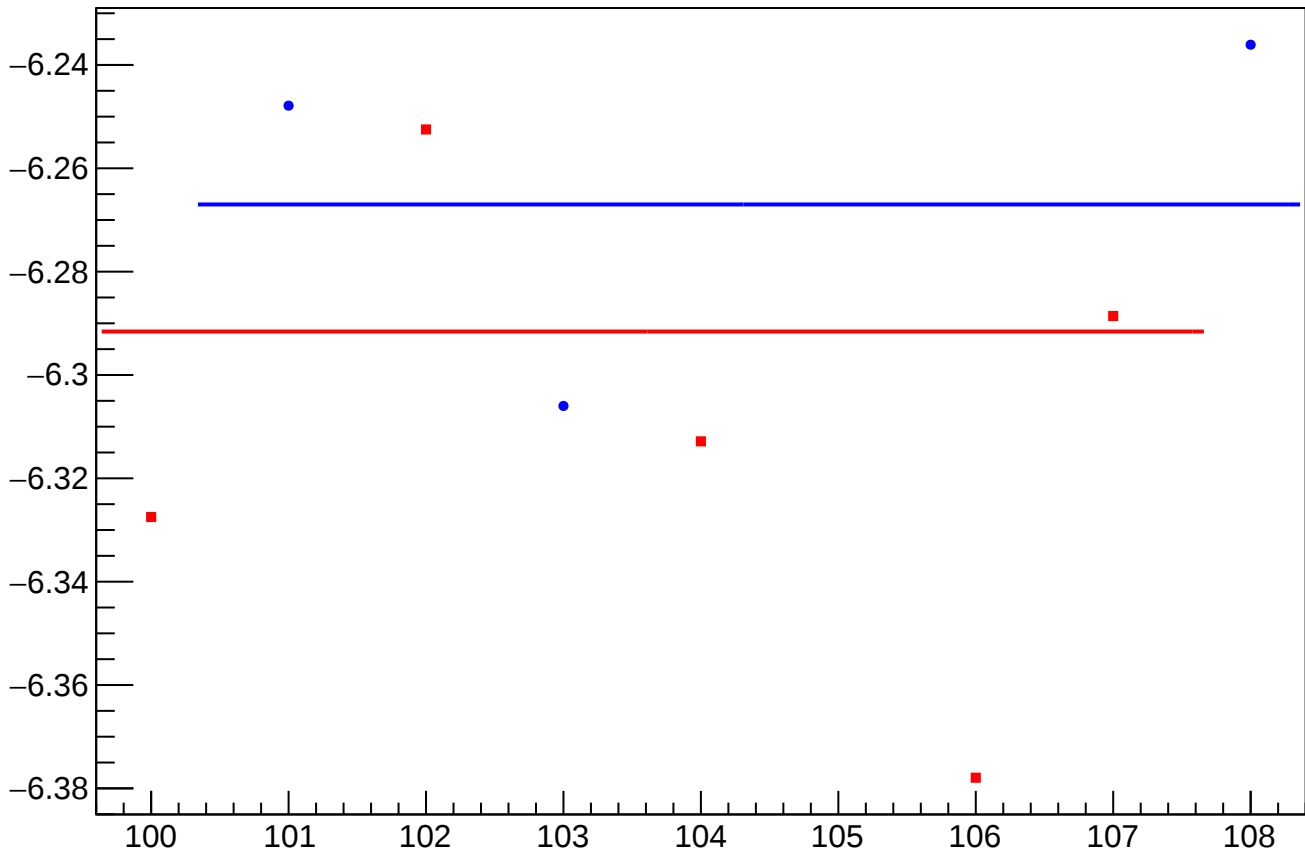
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 80175.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01Y\_mean vs Slug



Right In: -6.267 $\pm$ 0.000  $\chi^2$ /NDF: 48177771.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -6.292 $\pm$ 0.000  $\chi^2$ /NDF: 74214939.9/4

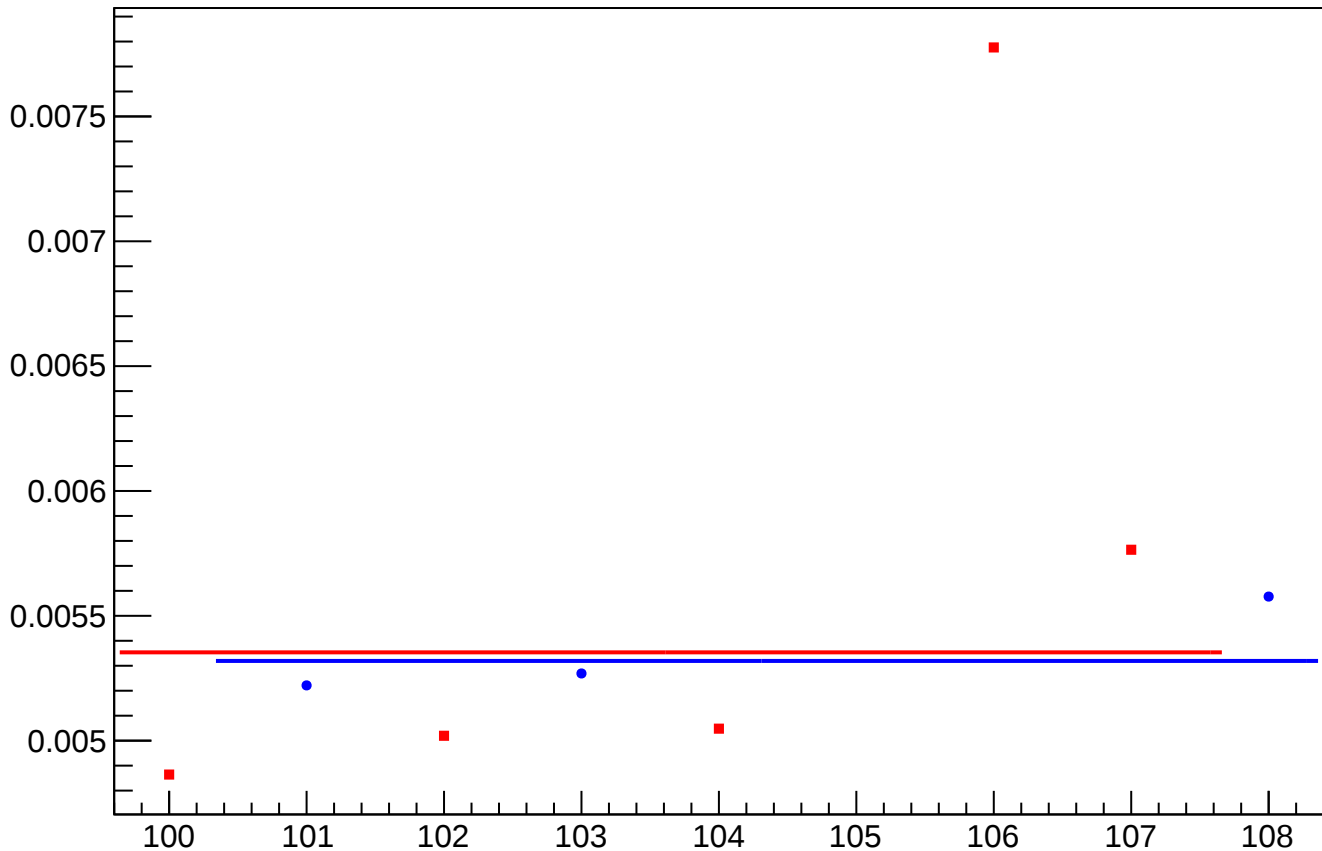
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -6.280 $\pm$ 0.000  $\chi^2$ /NDF: 138726805.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l01Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 2042.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 60432.4/4

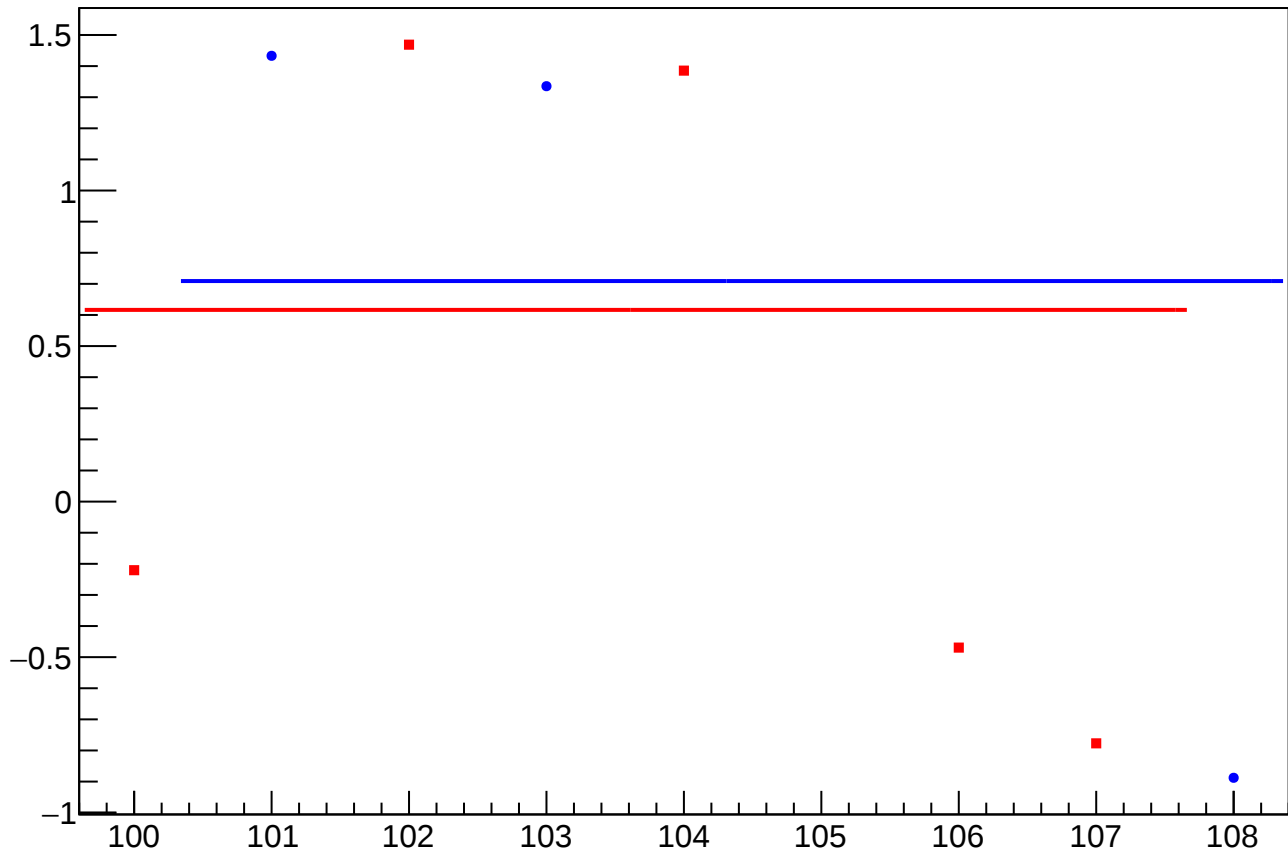
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 62538.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02X\_mean vs Slug



Right In: 0.709+/-0.000  $\chi^2/\text{NDF}$ : 8017875873.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.616+/-0.000  $\chi^2/\text{NDF}$ : 8208201718.5/4

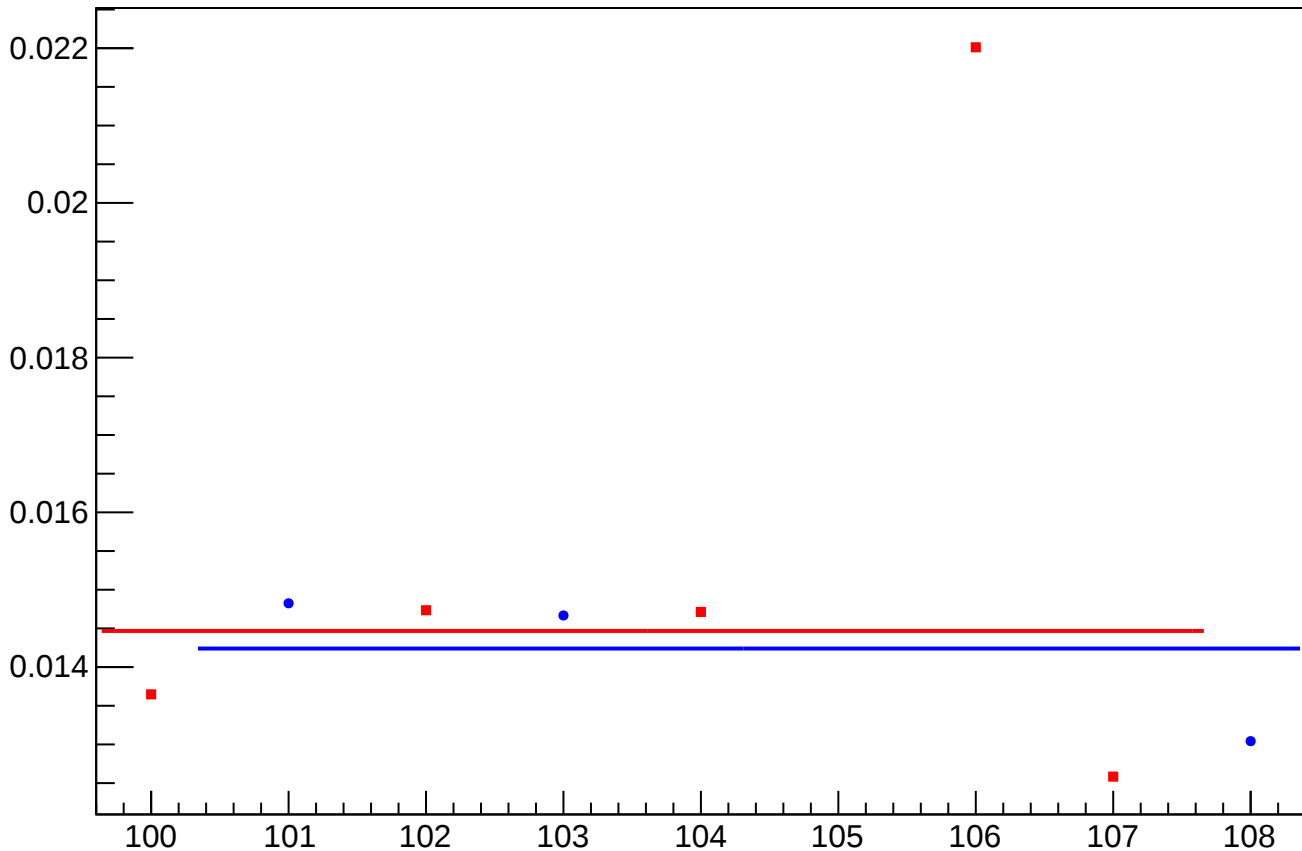
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.662+/-0.000  $\chi^2/\text{NDF}$ : 16258702230.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02X\_rms vs Slug



Right In: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 9063.7/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 65820.9/4

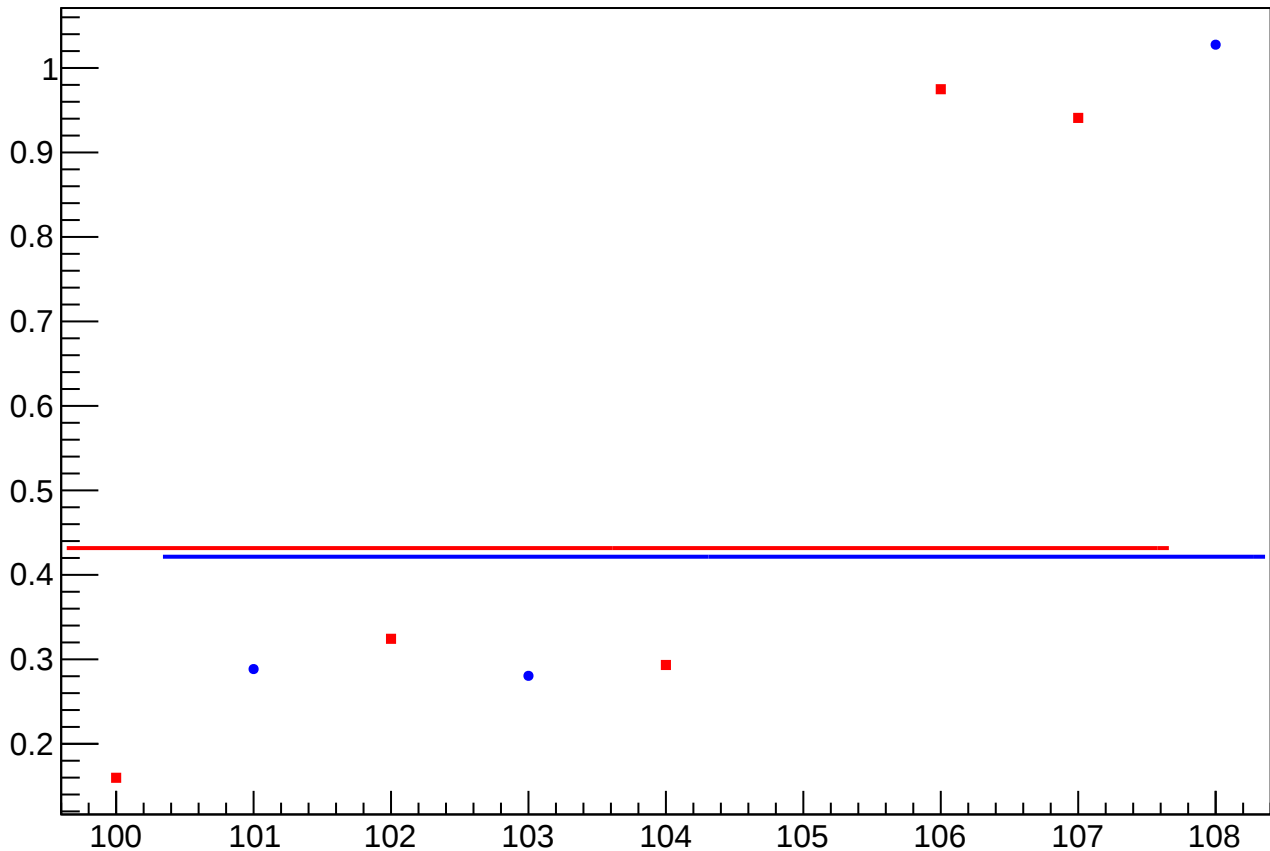
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 75277.2/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l02Y\_mean vs Slug



Right In: 0.421+/-0.000  $\chi^2/\text{NDF}$ : 2474081645.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.432+/-0.000  $\chi^2/\text{NDF}$ : 2325737416.9/4

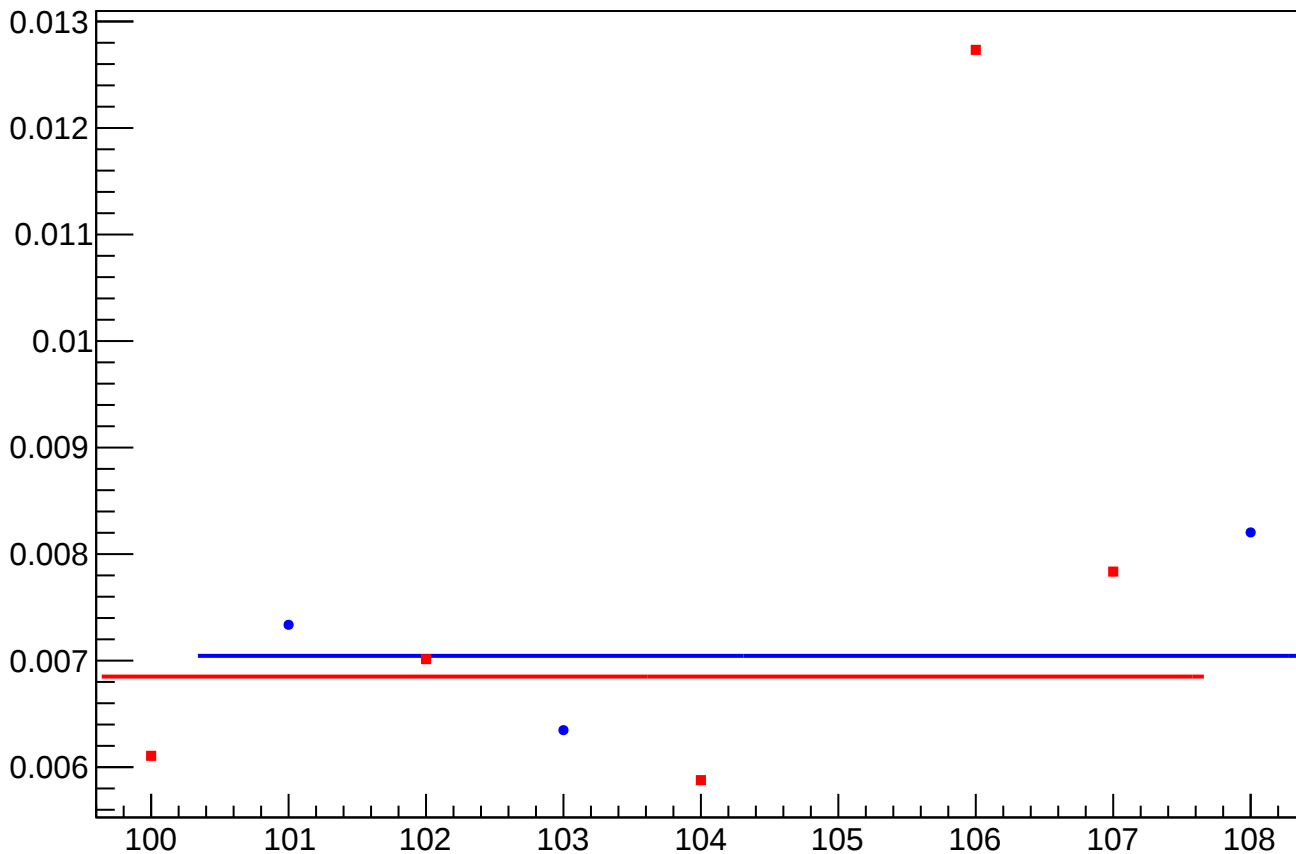
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.427+/-0.000  $\chi^2/\text{NDF}$ : 4801443881.2/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02Y\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 29748.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 122166.5/4

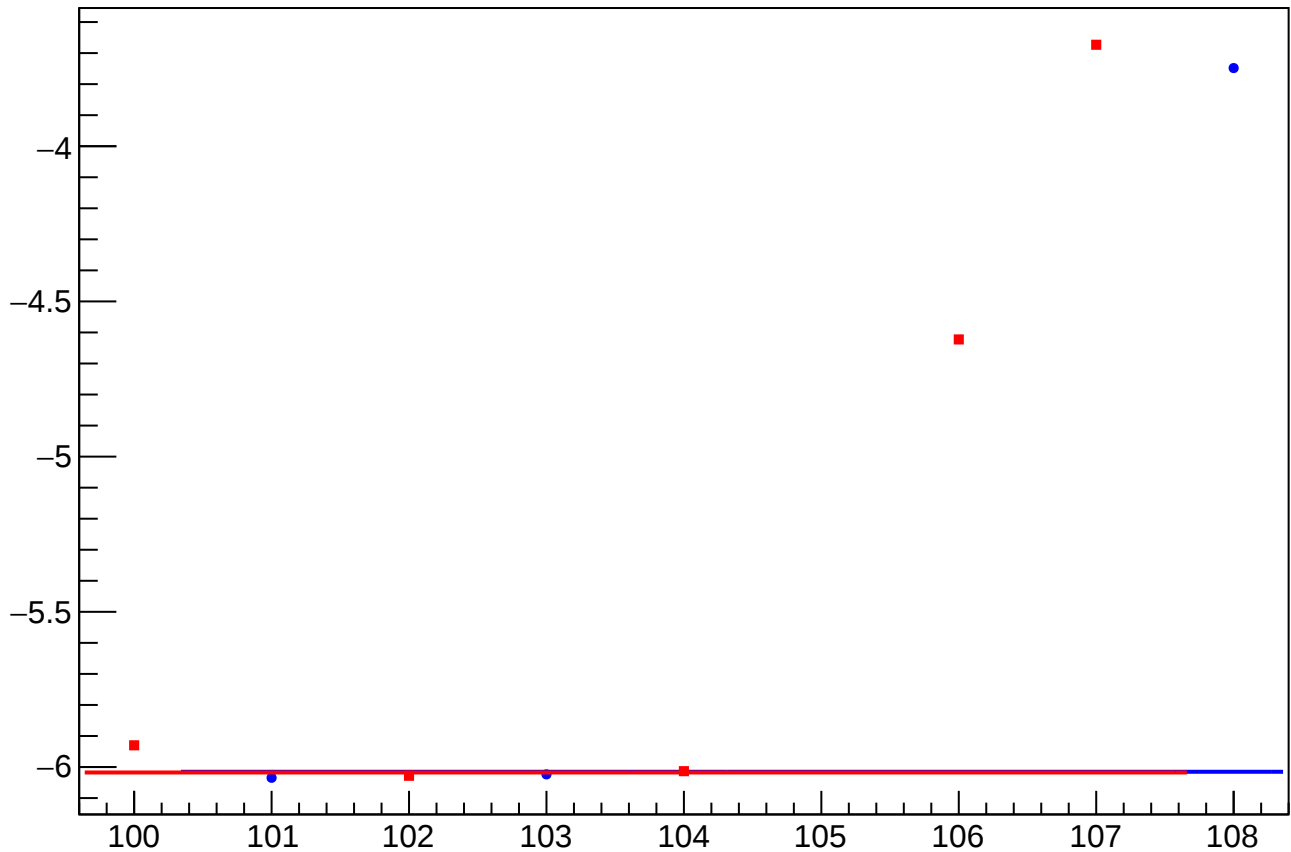
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 153093.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03X\_mean vs Slug



Right In: -6.015+/-0.000  $\chi^2/\text{NDF}$ : 1365062780.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -6.018+/-0.000  $\chi^2/\text{NDF}$ : 131319845.6/4

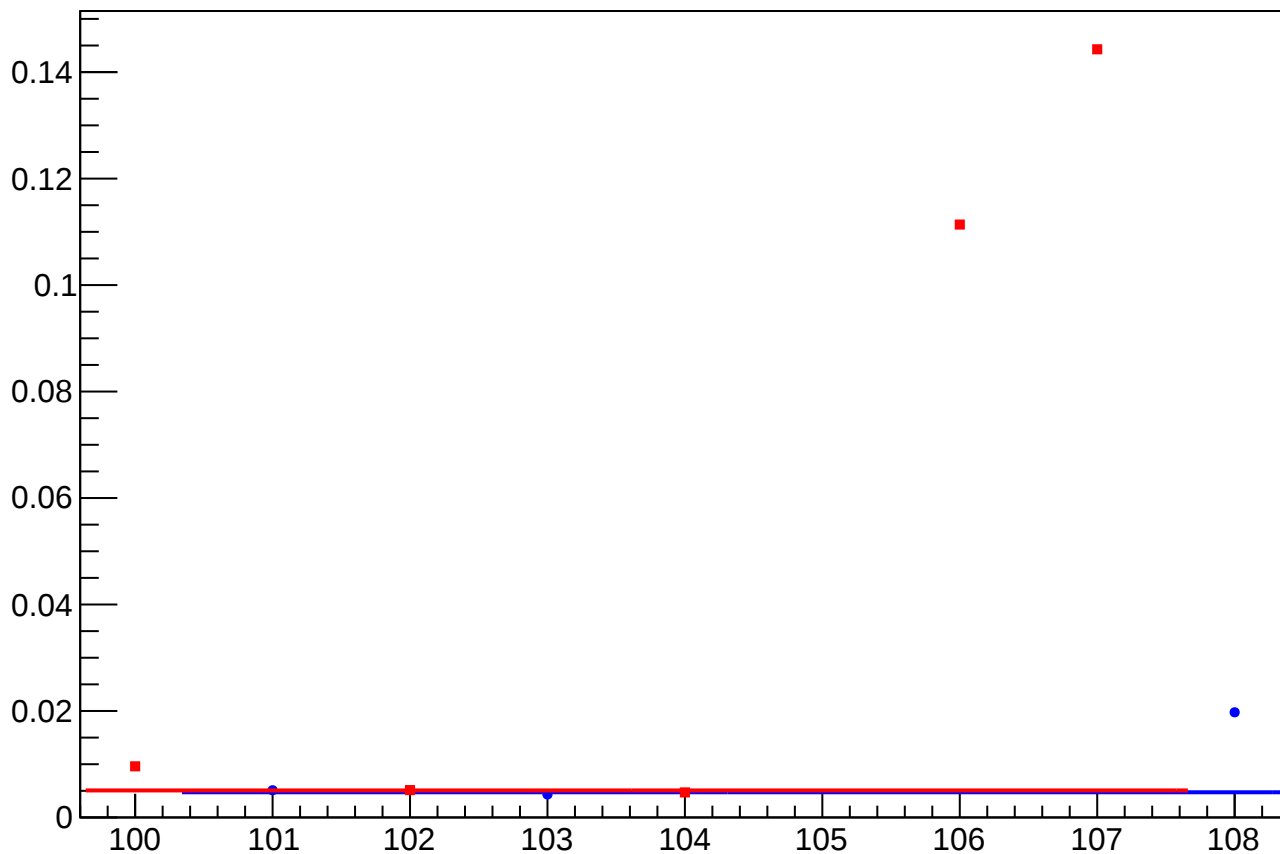
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -6.016+/-0.000  $\chi^2/\text{NDF}$ : 1496487239.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03X\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 134016.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1109091.2/4

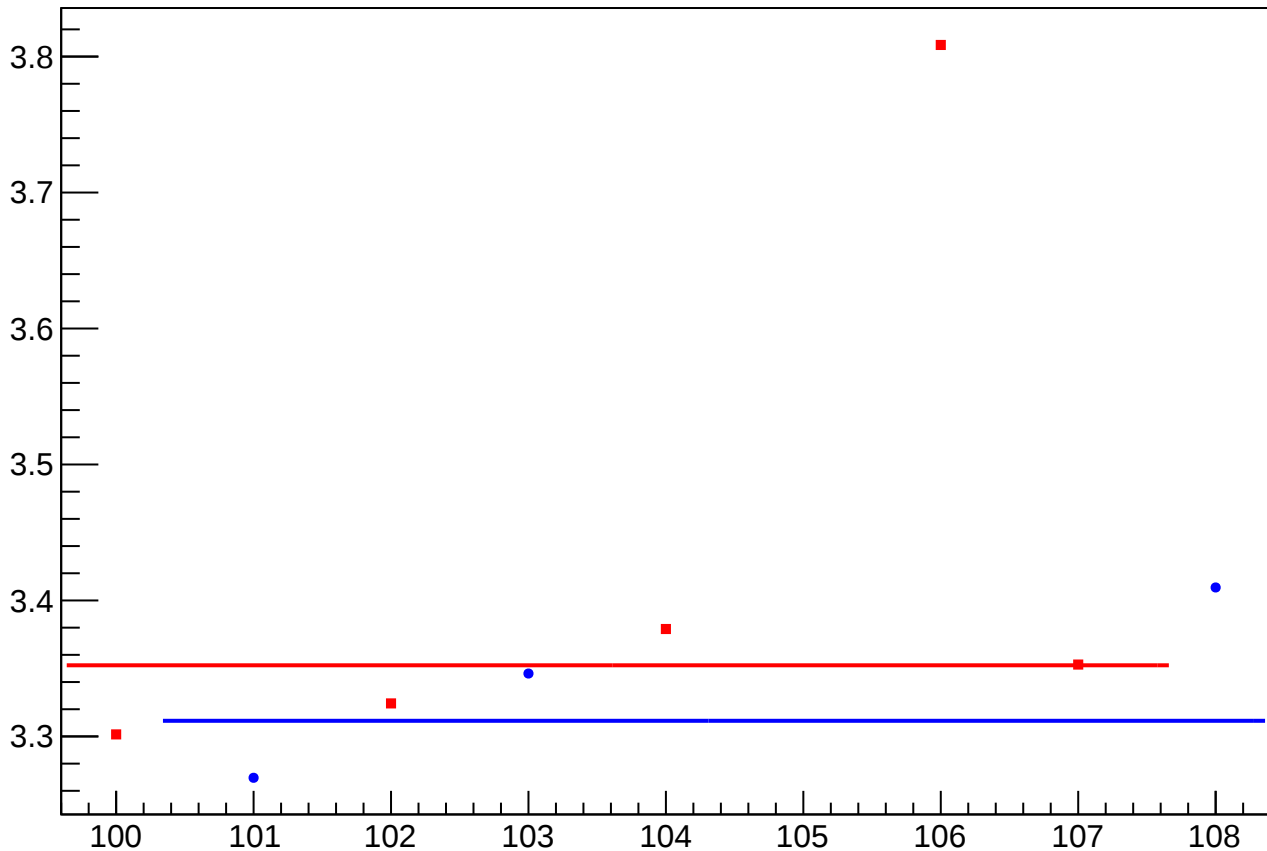
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1247987.8/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03Y\_mean vs Slug



Right In: 3.311+/-0.000  $\chi^2/\text{NDF}$ : 41946696.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.352+/-0.000  $\chi^2/\text{NDF}$ : 24171265.9/4

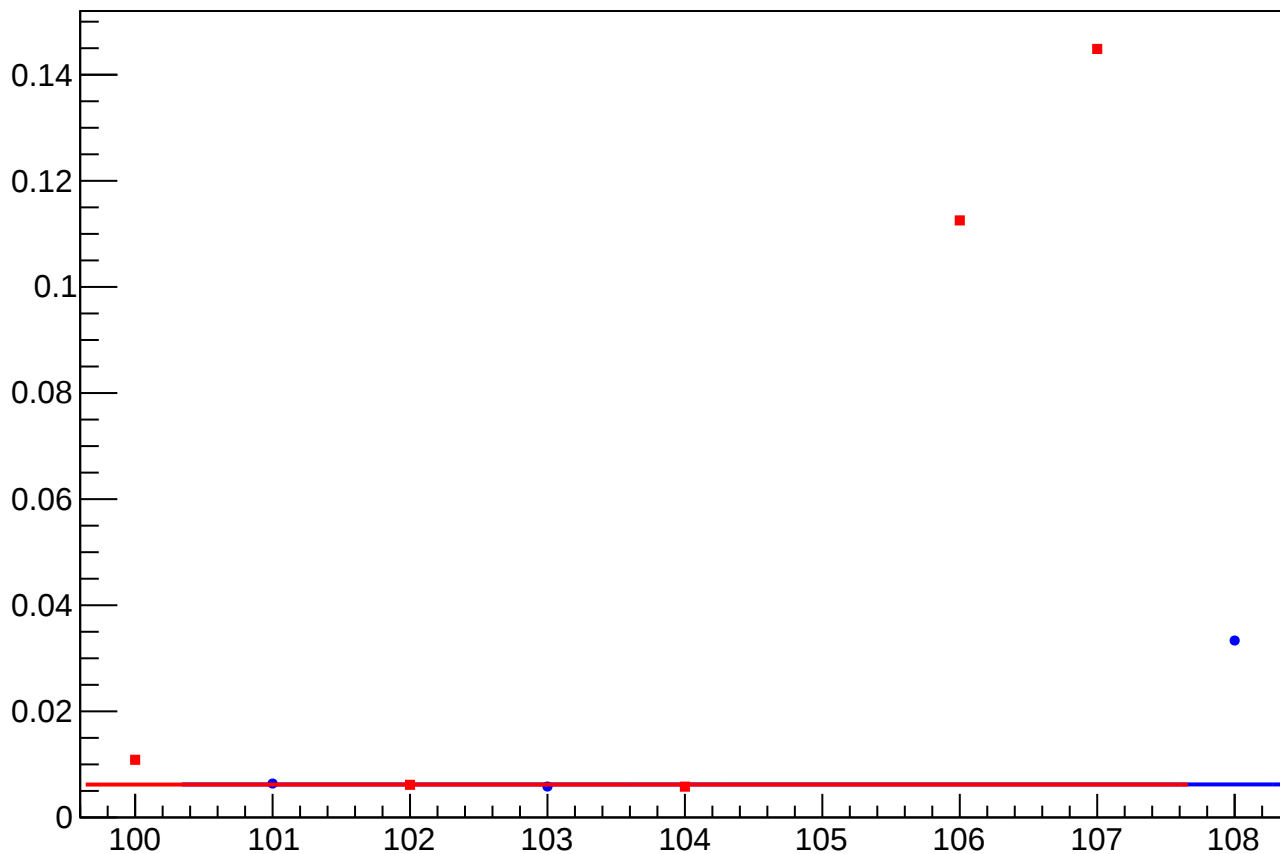
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.331+/-0.000  $\chi^2/\text{NDF}$ : 88352604.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03Y\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 212278.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1084275.9/4

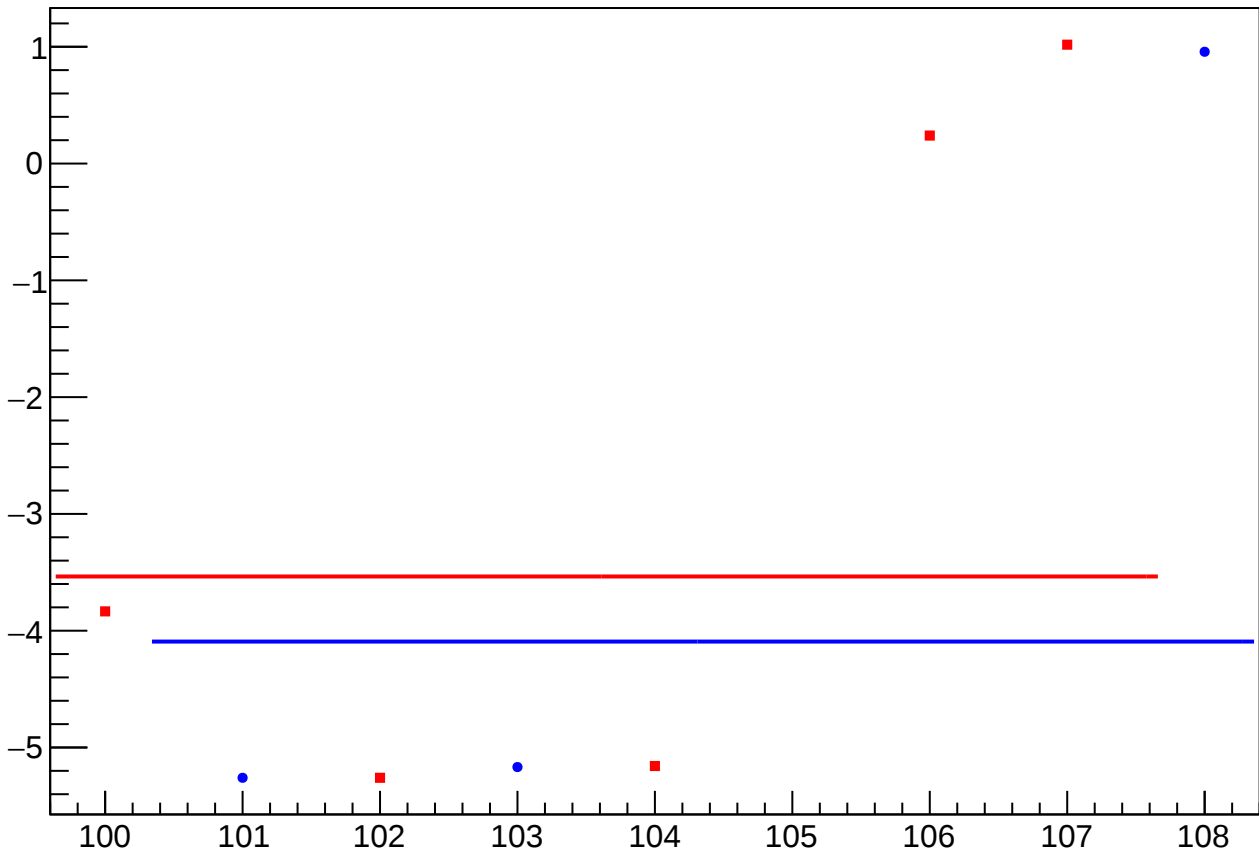
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1296565.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_bpm0l04X\_mean vs Slug



Right In: -4.093+/-0.000  $\chi^2/\text{NDF}$ : 53901330873.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

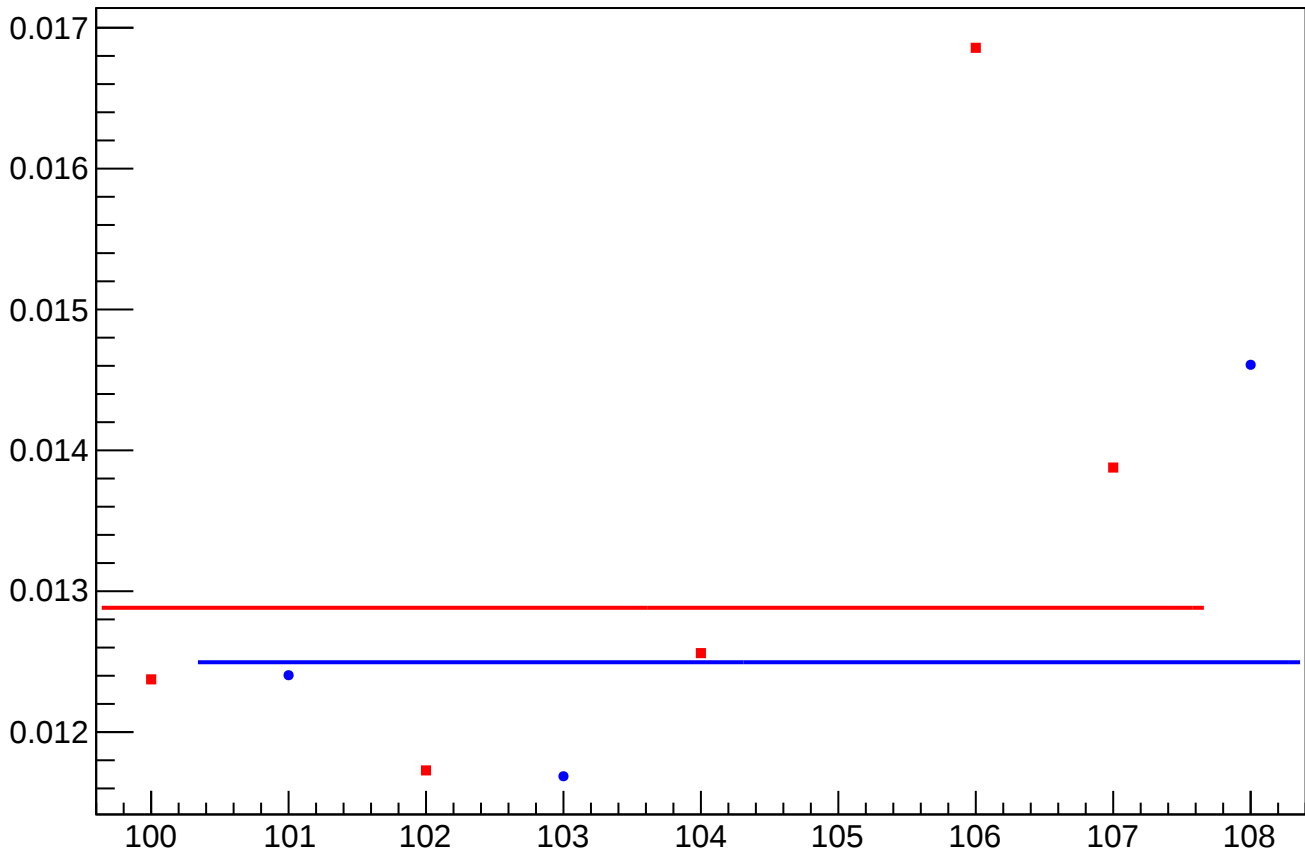
Right Out: -3.536+/-0.000  $\chi^2/\text{NDF}$ : 70842163324.8/4

All: -3.805+/-0.000  $\chi^2/\text{NDF}$ : 126275392090.6

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04X\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 20846.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 46405.2/4

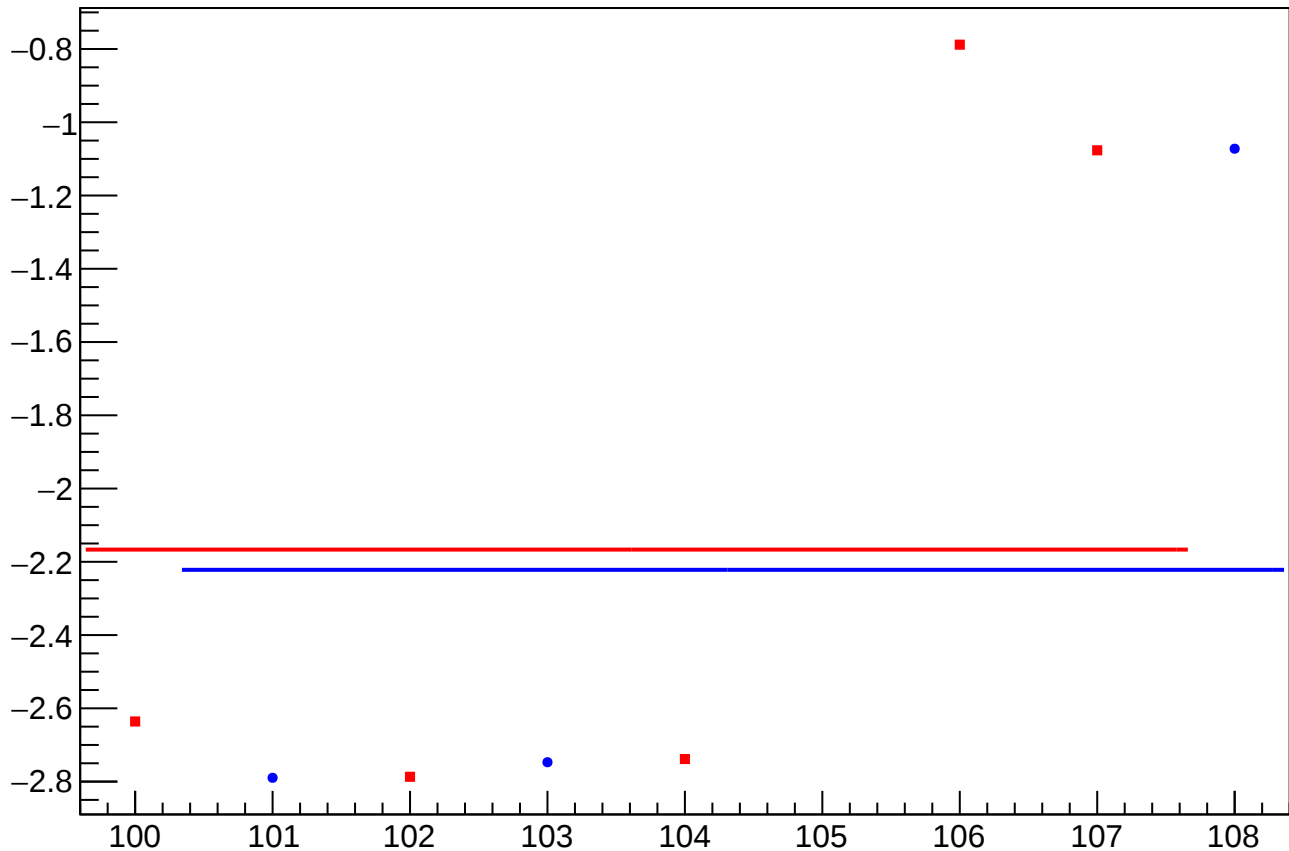
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 68726.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04Y\_mean vs Slug



Right In: -2.222+/-0.000  $\chi^2/\text{NDF}$ : 70029052534.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.167+/-0.000  $\chi^2/\text{NDF}$ : 83063088591.5/4

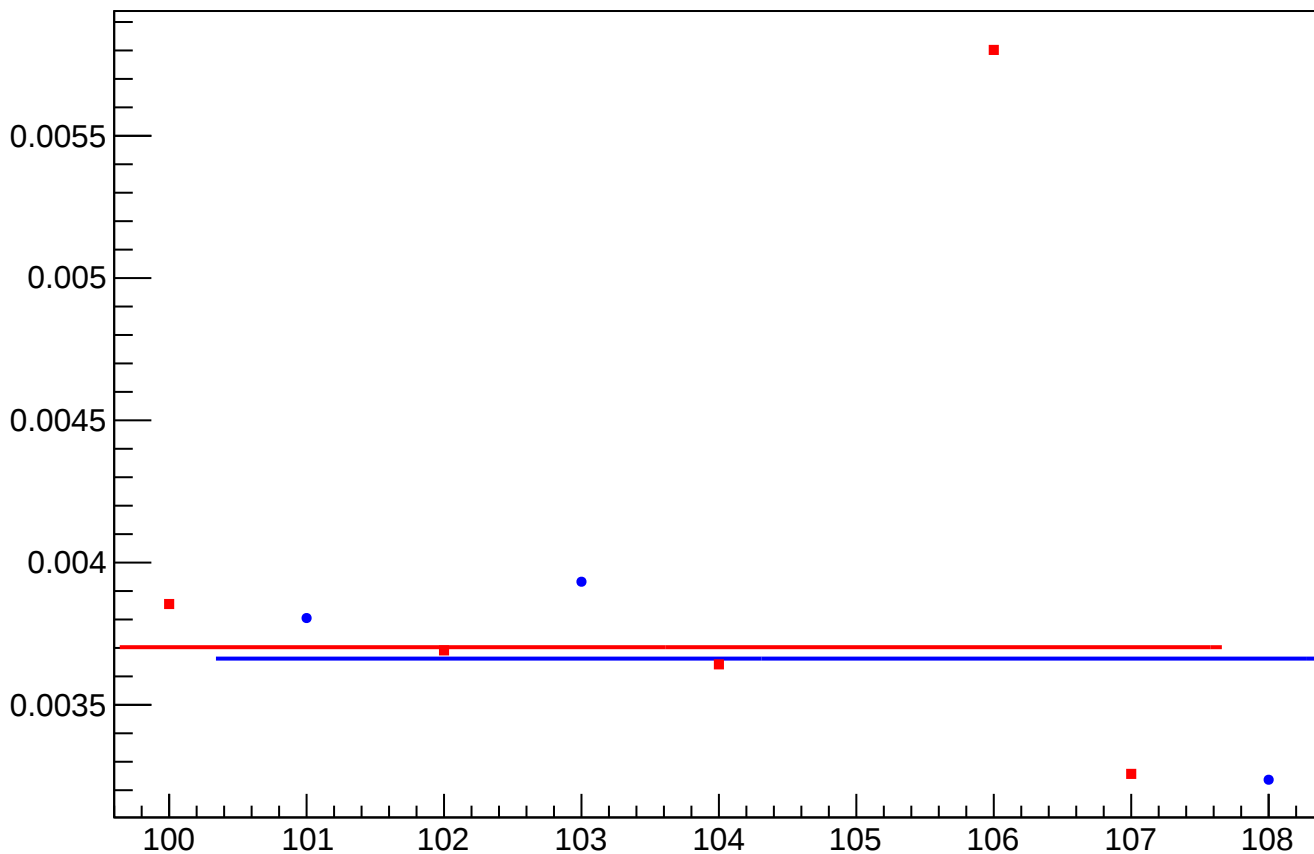
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.193+/-0.000  $\chi^2/\text{NDF}$ : 153269480809.6

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04Y\_rms vs Slug



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 19811.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 84315.7/4

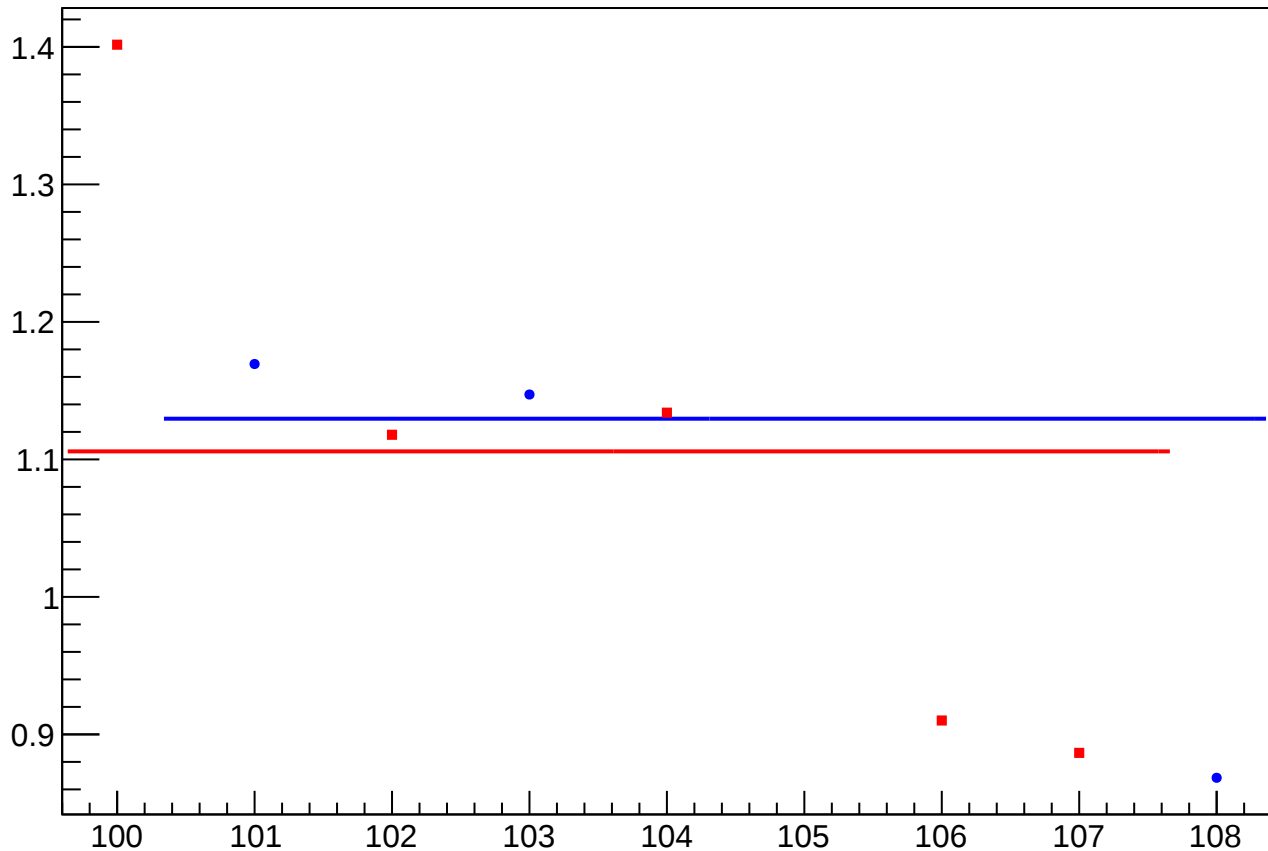
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 104314.2/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l05X\_mean vs Slug



Right In: 1.130 $\pm$ 0.000  $\chi^2$ /NDF: 540006354.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.106 $\pm$ 0.000  $\chi^2$ /NDF: 774115771.1/4

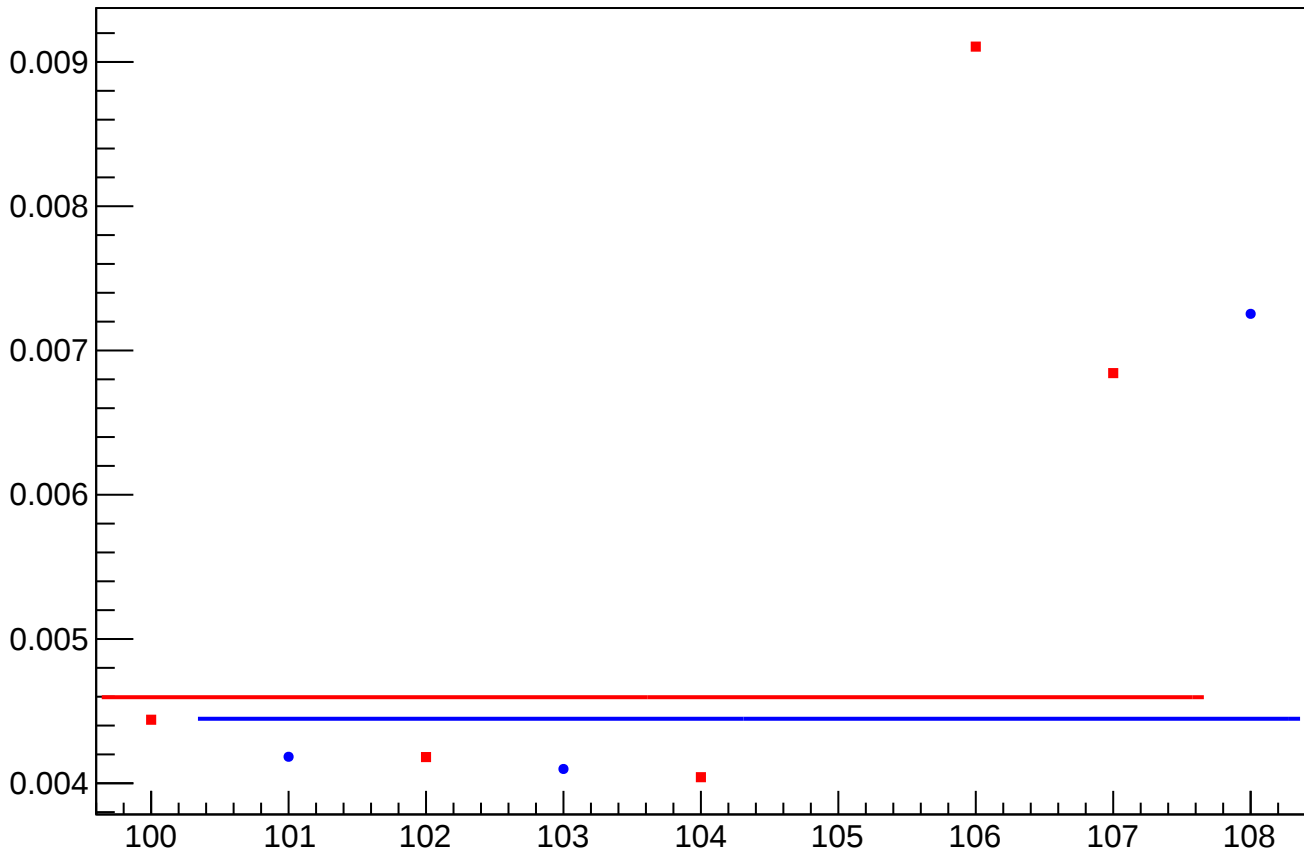
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.118 $\pm$ 0.000  $\chi^2$ /NDF: 1334405249.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l05X\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 123166.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 214267.0/4

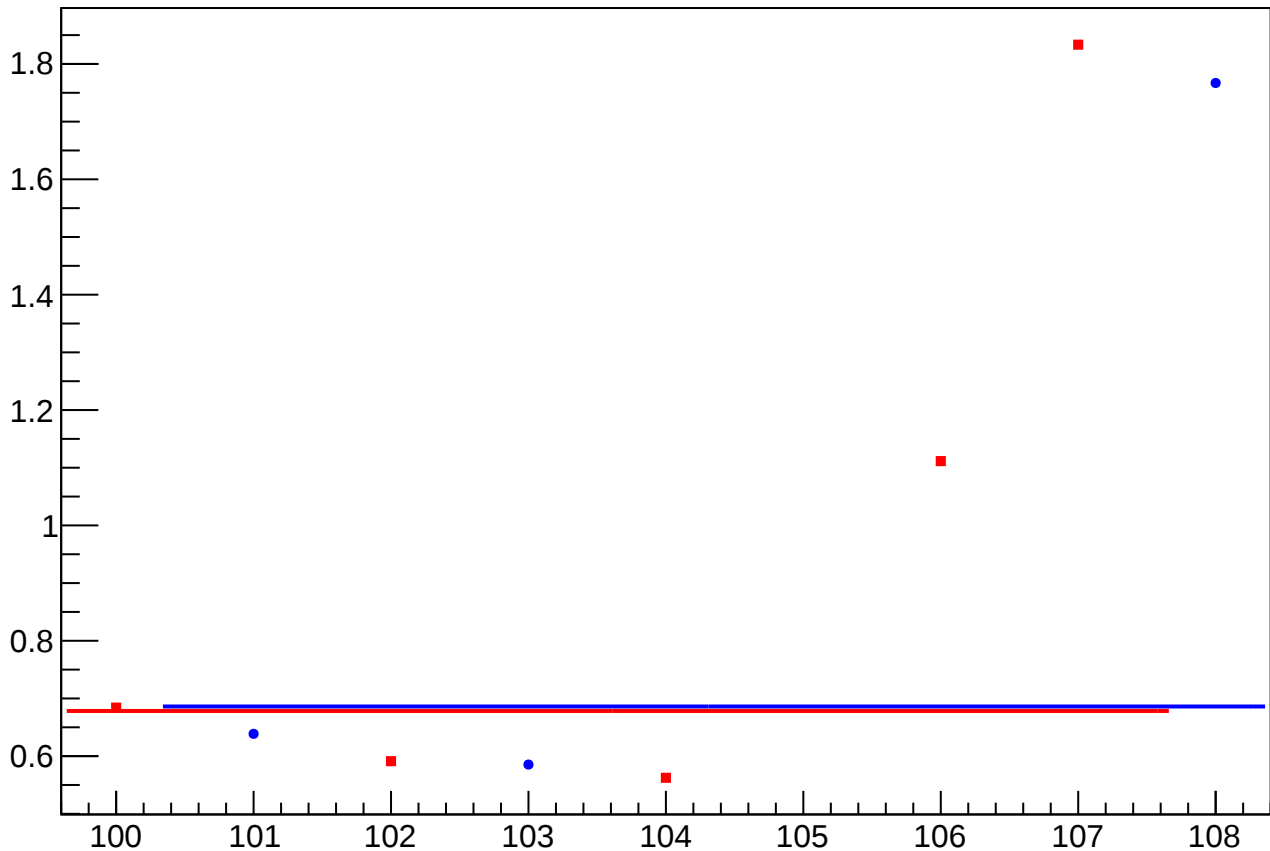
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 339036.7/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l05Y\_mean vs Slug



Right In: 0.686+/-0.000  $\chi^2/\text{NDF}$ : 6706620884.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

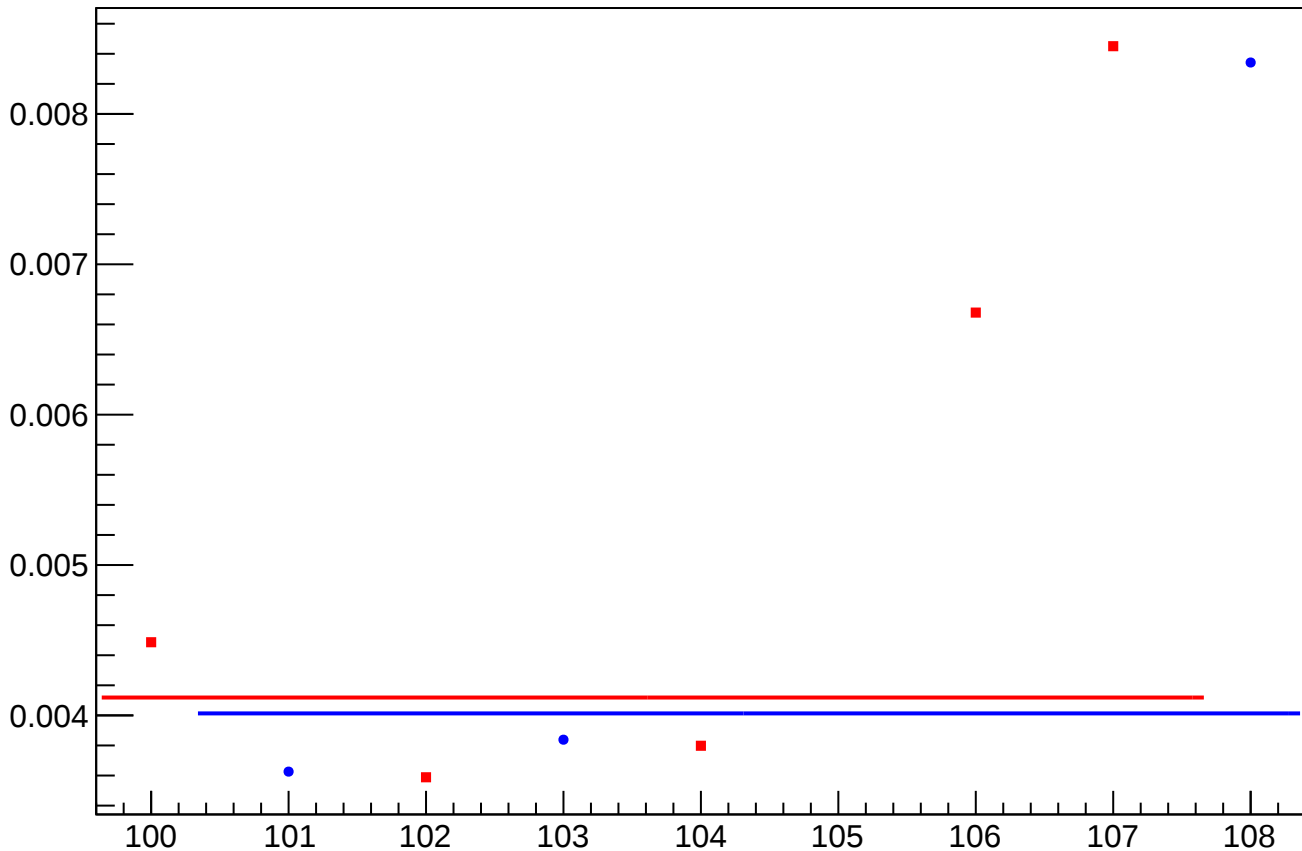
Right Out: 0.678+/-0.000  $\chi^2/\text{NDF}$ : 7909200291.2/4

All: 0.682+/-0.000  $\chi^2/\text{NDF}$ : 14618369111.2/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l05Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 215104.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 261855.9/4

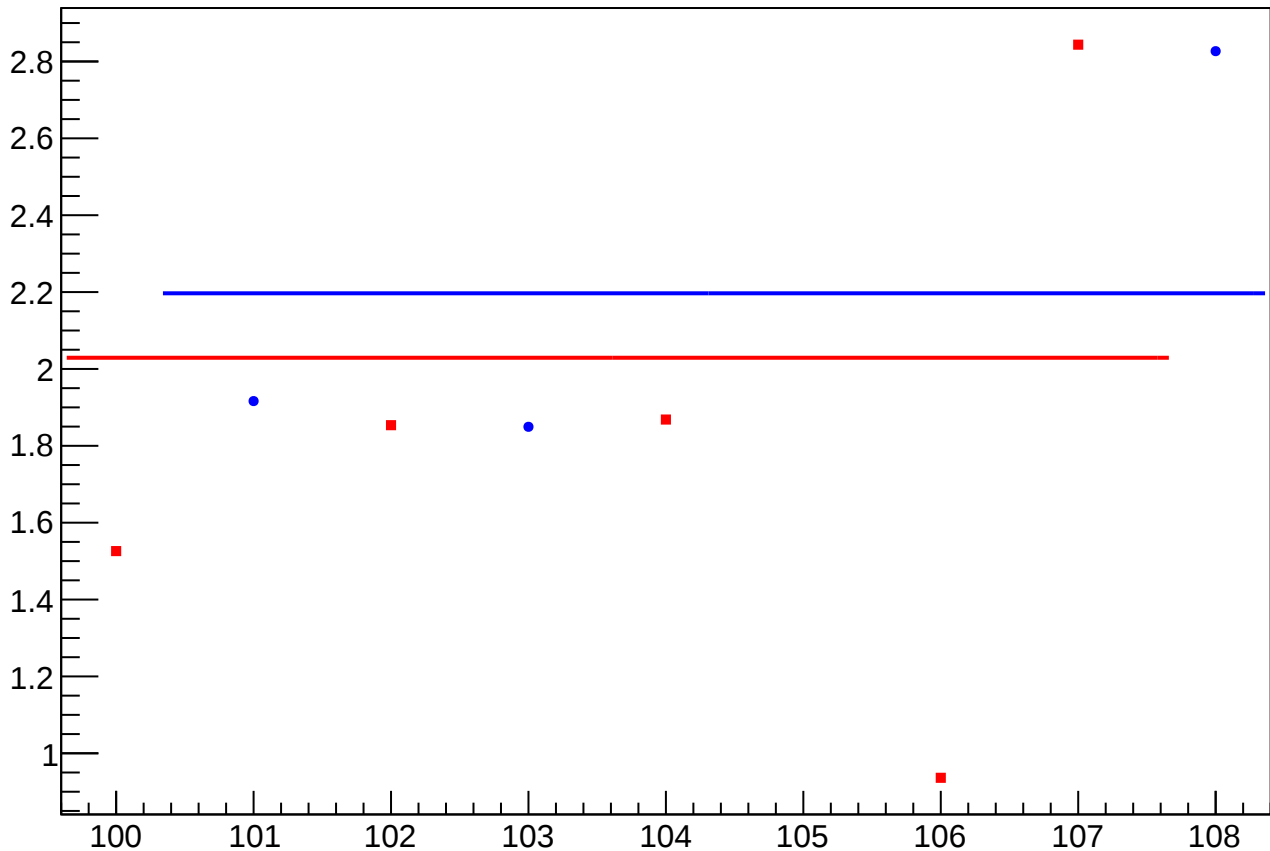
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 477907.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06X\_mean vs Slug



Right In: 2.197 $\pm$ 0.000  $\chi^2$ /NDF: 5570716270.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2.029 $\pm$ 0.000  $\chi^2$ /NDF: 12283184200.6/4

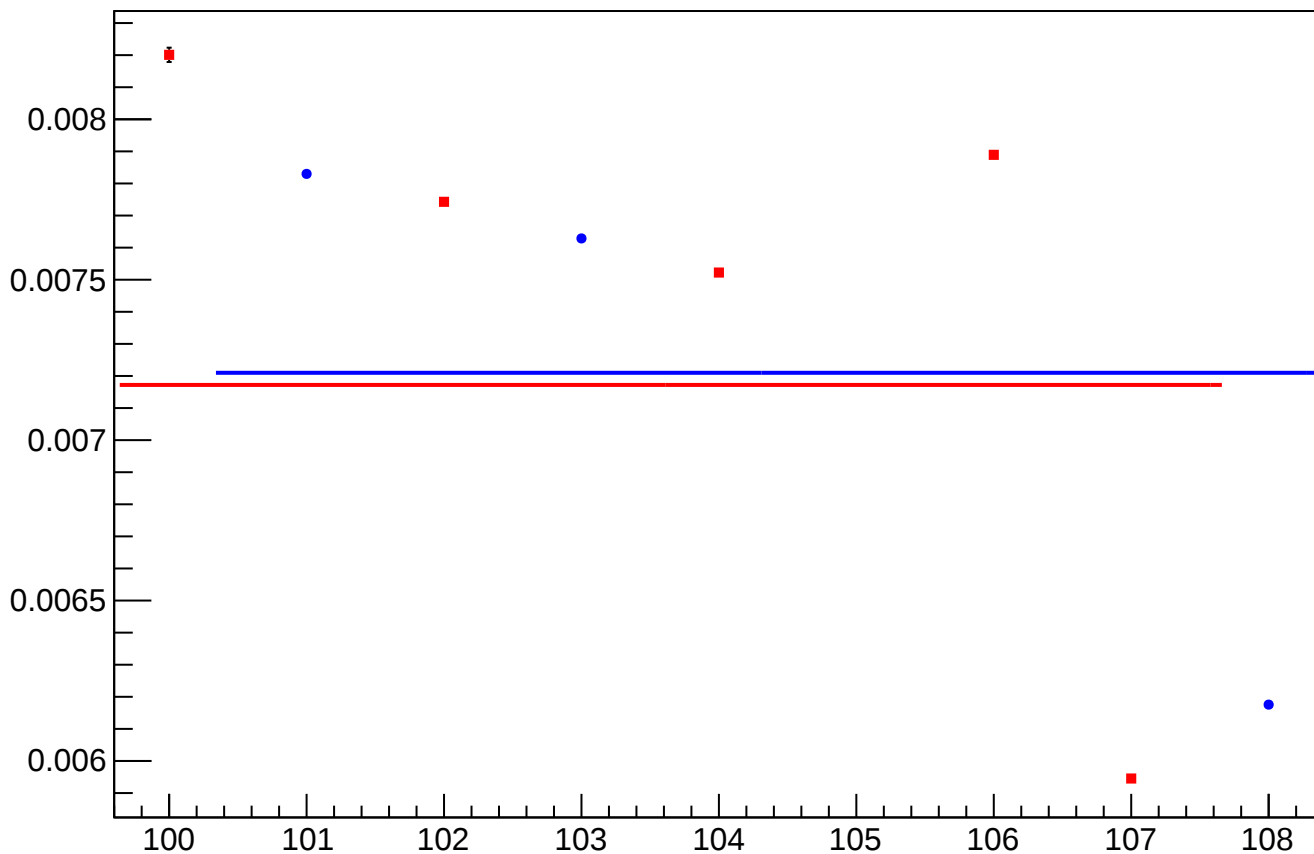
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2.107 $\pm$ 0.000  $\chi^2$ /NDF: 18275454317.6/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l06X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 30292.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 43868.5/4

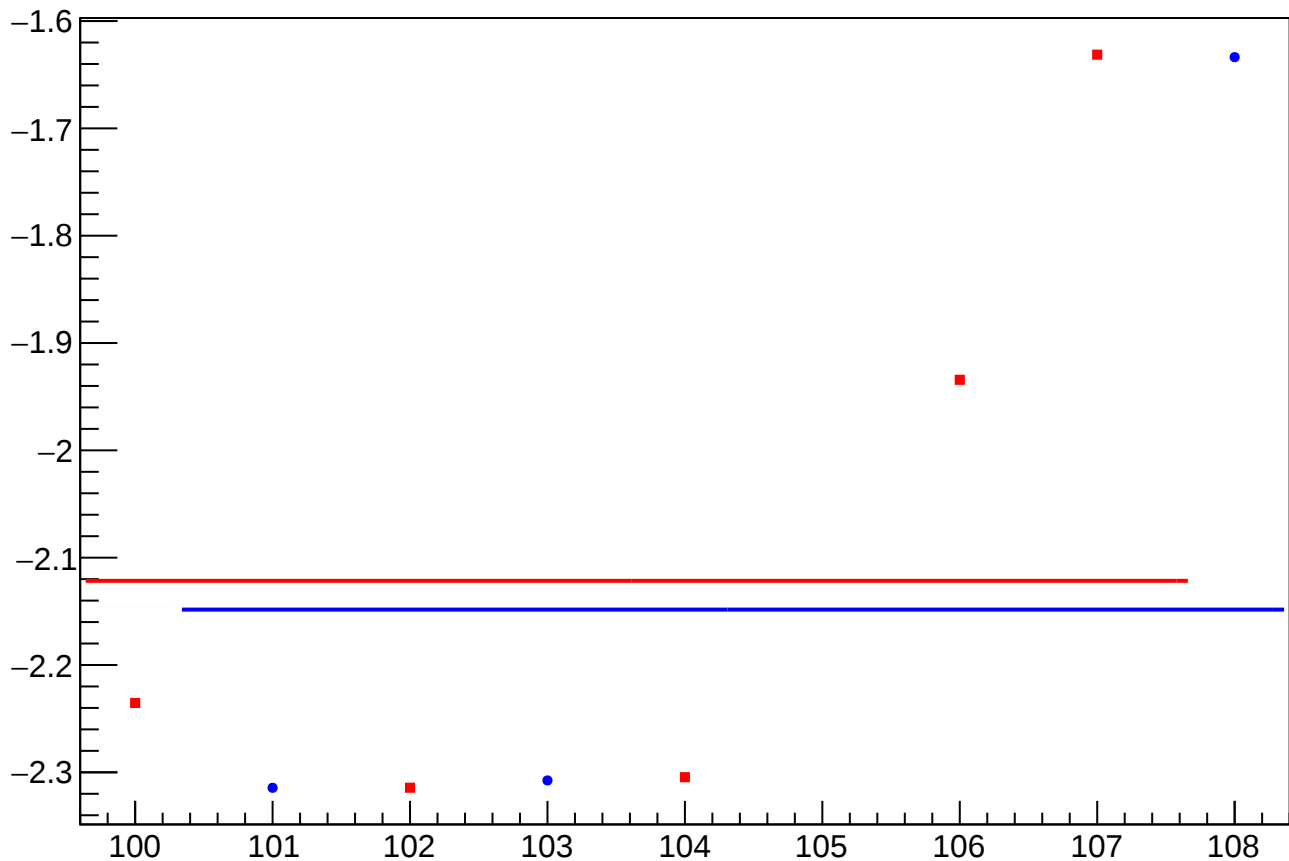
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 74203.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06Y\_mean vs Slug



Right In: -2.148+/-0.000  $\chi^2/\text{NDF}$ : 21203224803.1/2

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

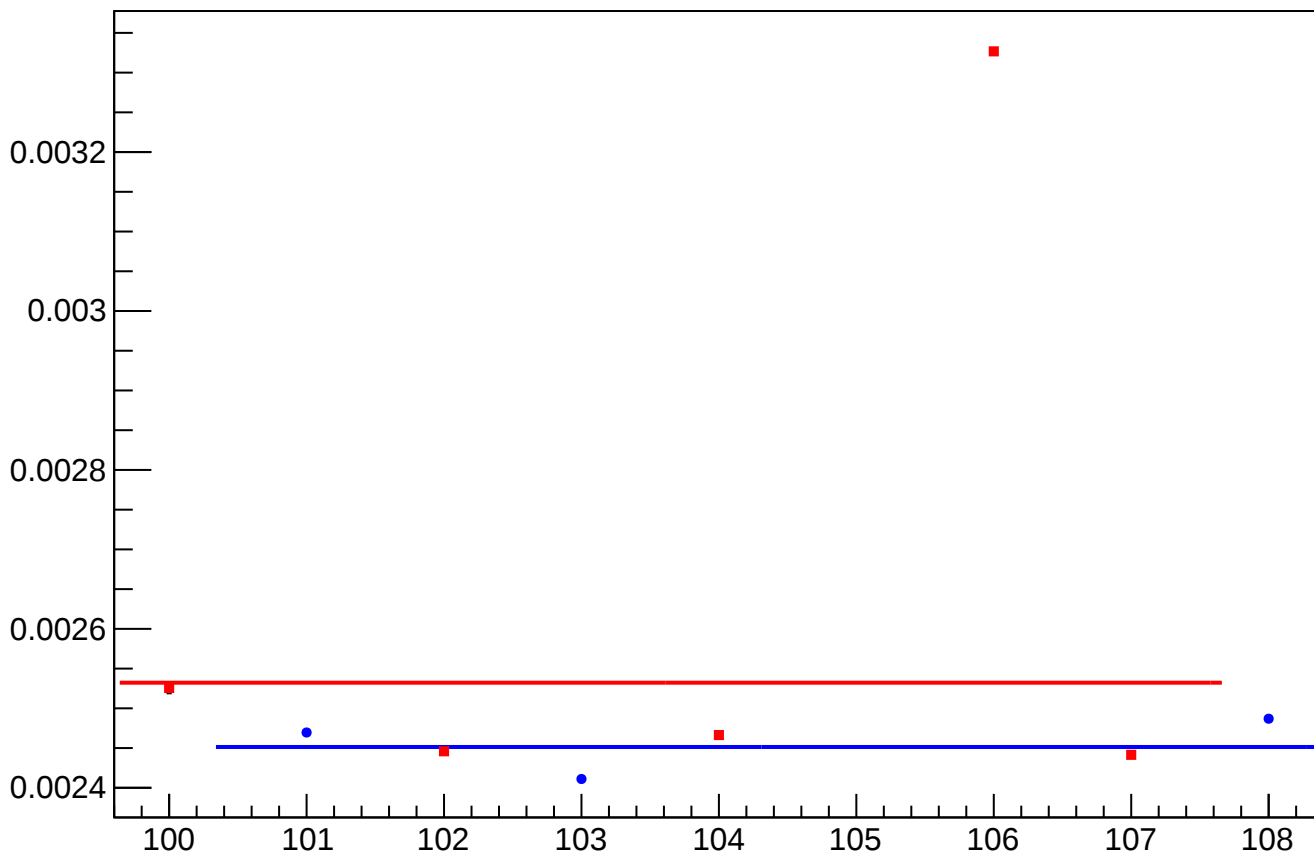
Right Out: -2.122+/-0.000  $\chi^2/\text{NDF}$ : 21145259936.1/4

All: -2.135+/-0.000  $\chi^2/\text{NDF}$ : 42441317054.3/6

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 532.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 32358.6/4

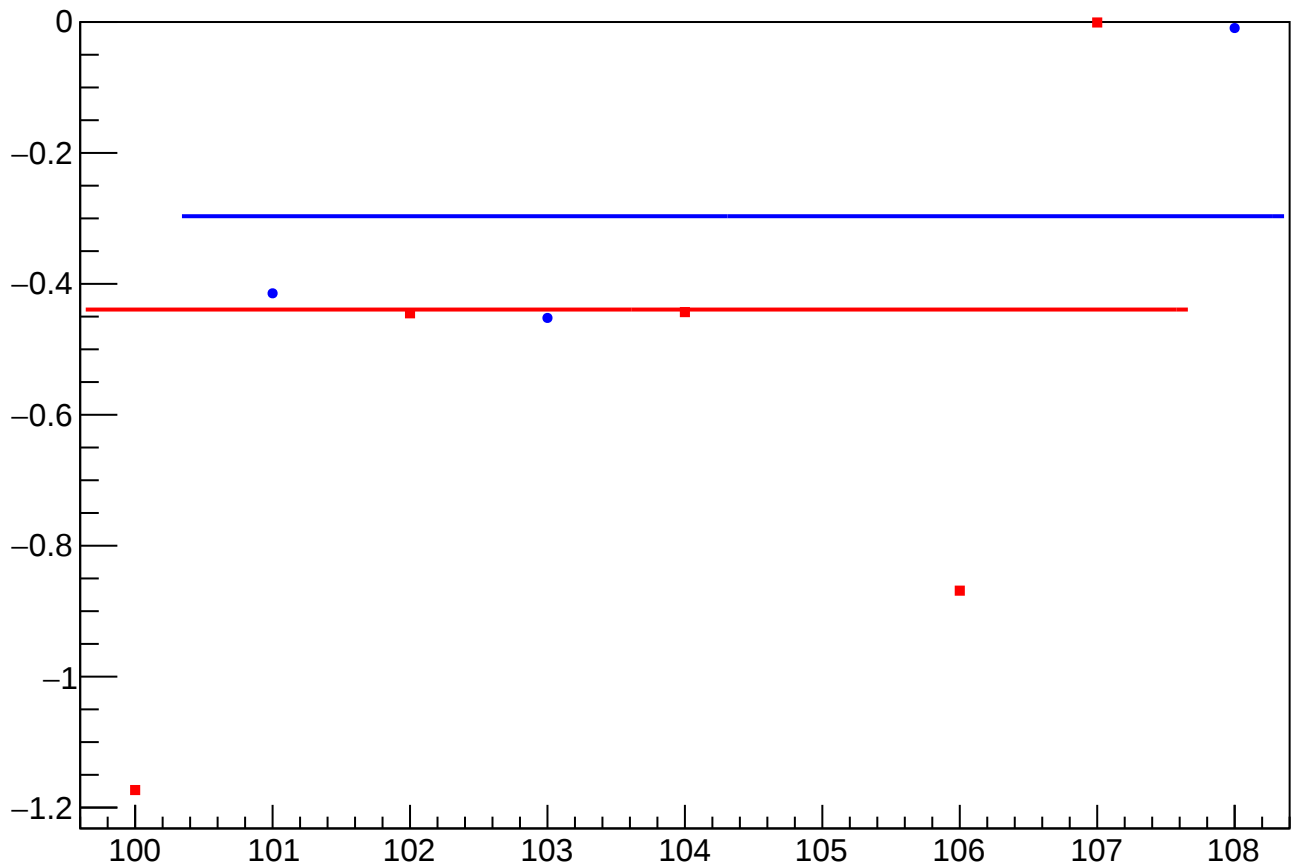
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 34580.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07X\_mean vs Slug



Right In: -0.297+/-0.000  $\chi^2/\text{NDF}$ : 420335307.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.439+/-0.000  $\chi^2/\text{NDF}$ : 1430073191.5/4

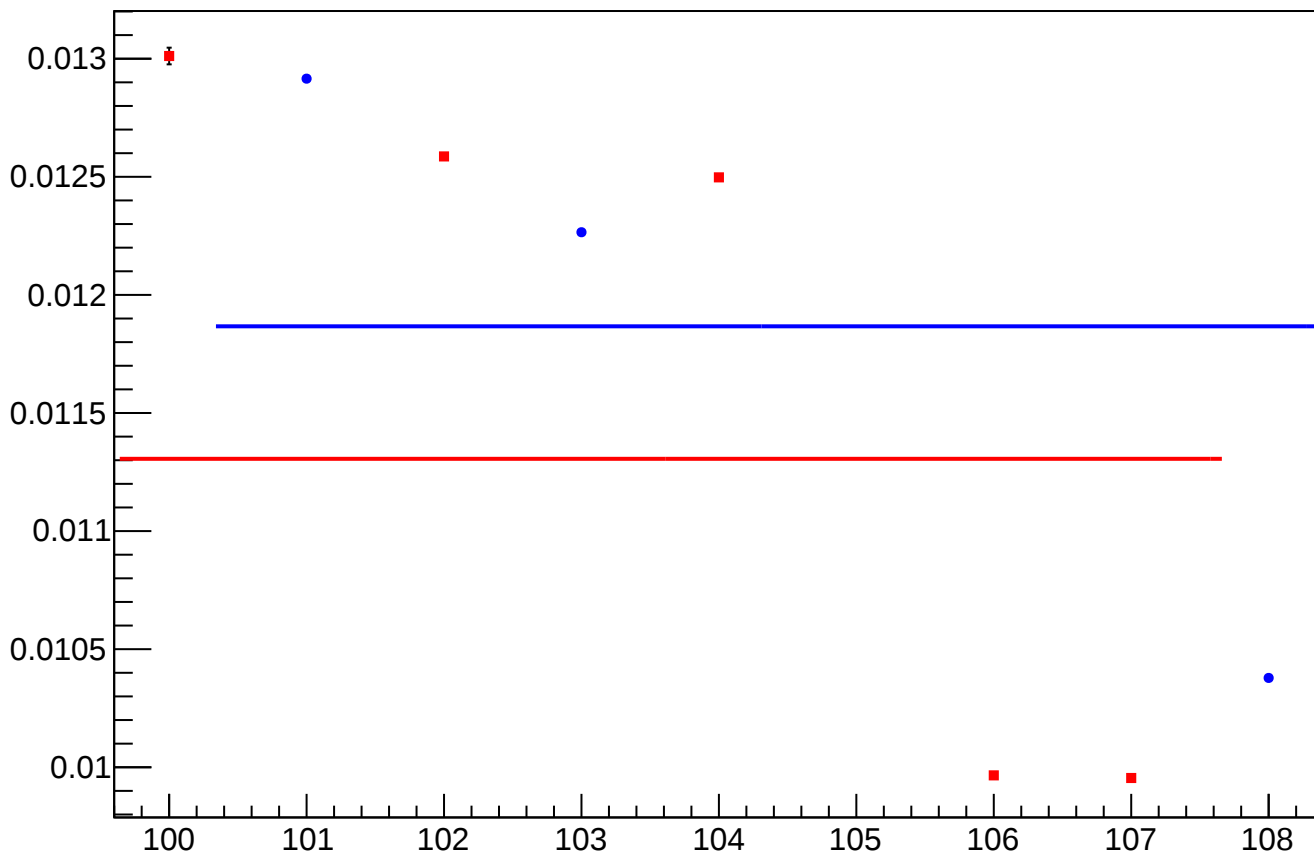
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.376+/-0.000  $\chi^2/\text{NDF}$ : 1970111074.7/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07X\_rms vs Slug



Right In: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 23923.9/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 45424.7/4

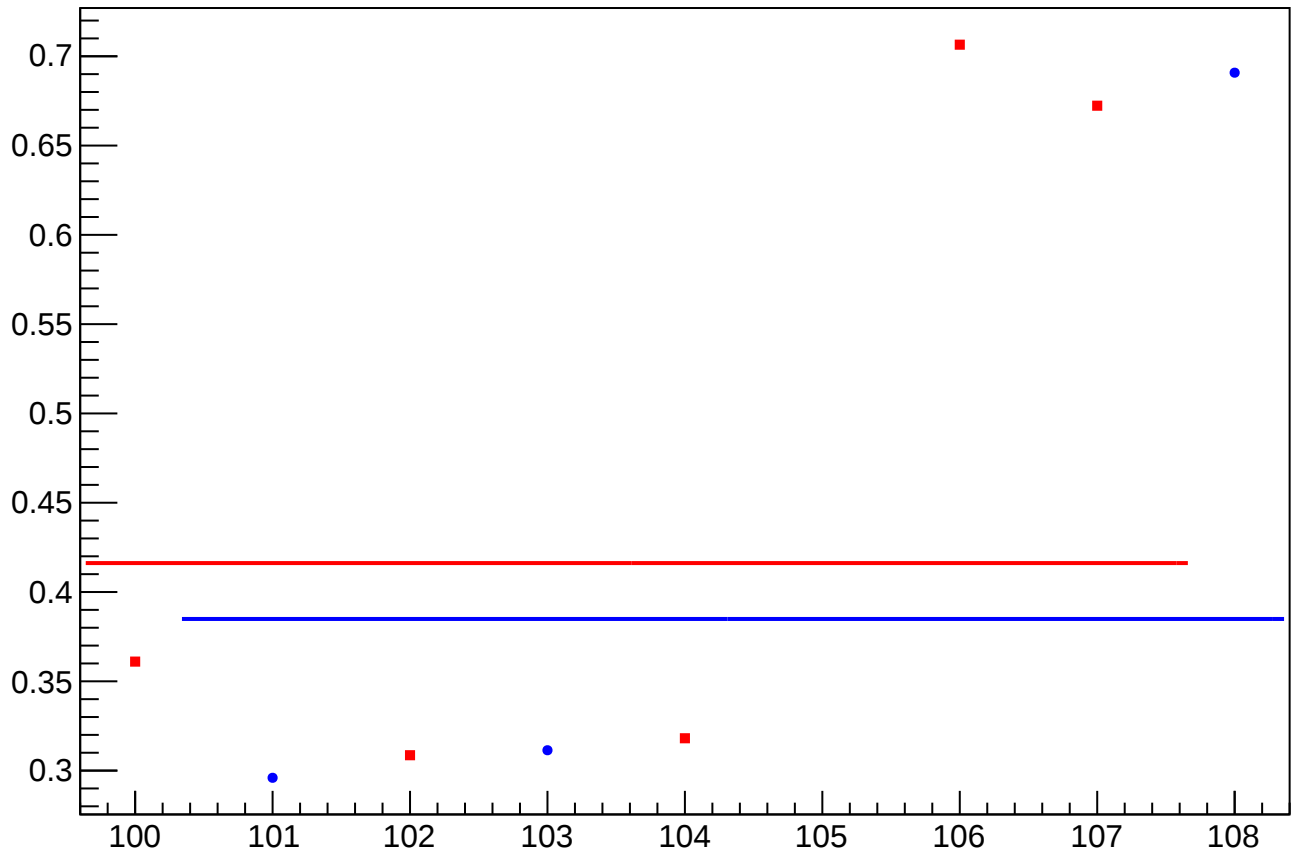
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 73055.1/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l07Y\_mean vs Slug



Right In: 0.385+/-0.000  $\chi^2/\text{NDF}$ : 6187119612.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.416+/-0.000  $\chi^2/\text{NDF}$ : 6814359974.1/4

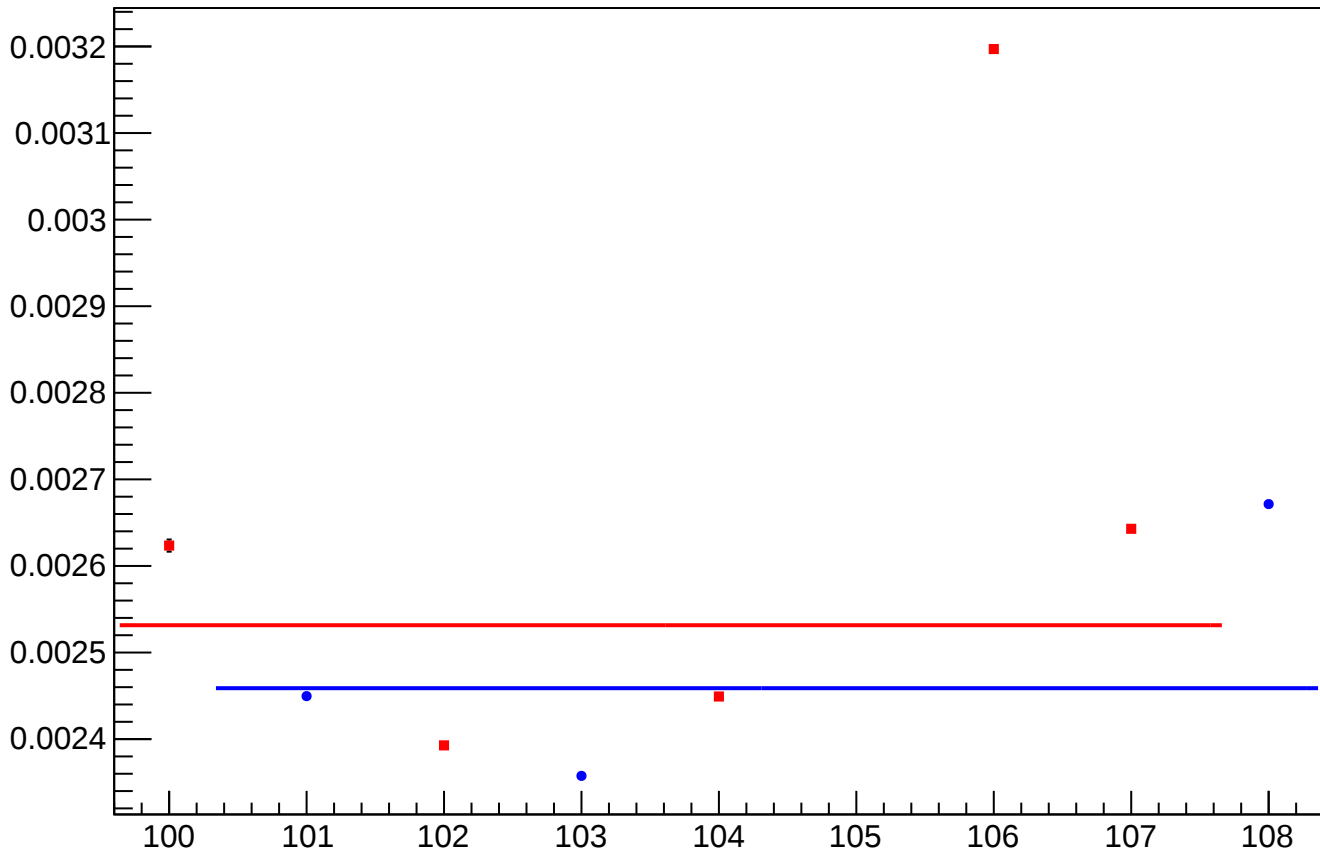
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.401+/-0.000  $\chi^2/\text{NDF}$ : 13124500264.0/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 6801.9/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 23558.4/4

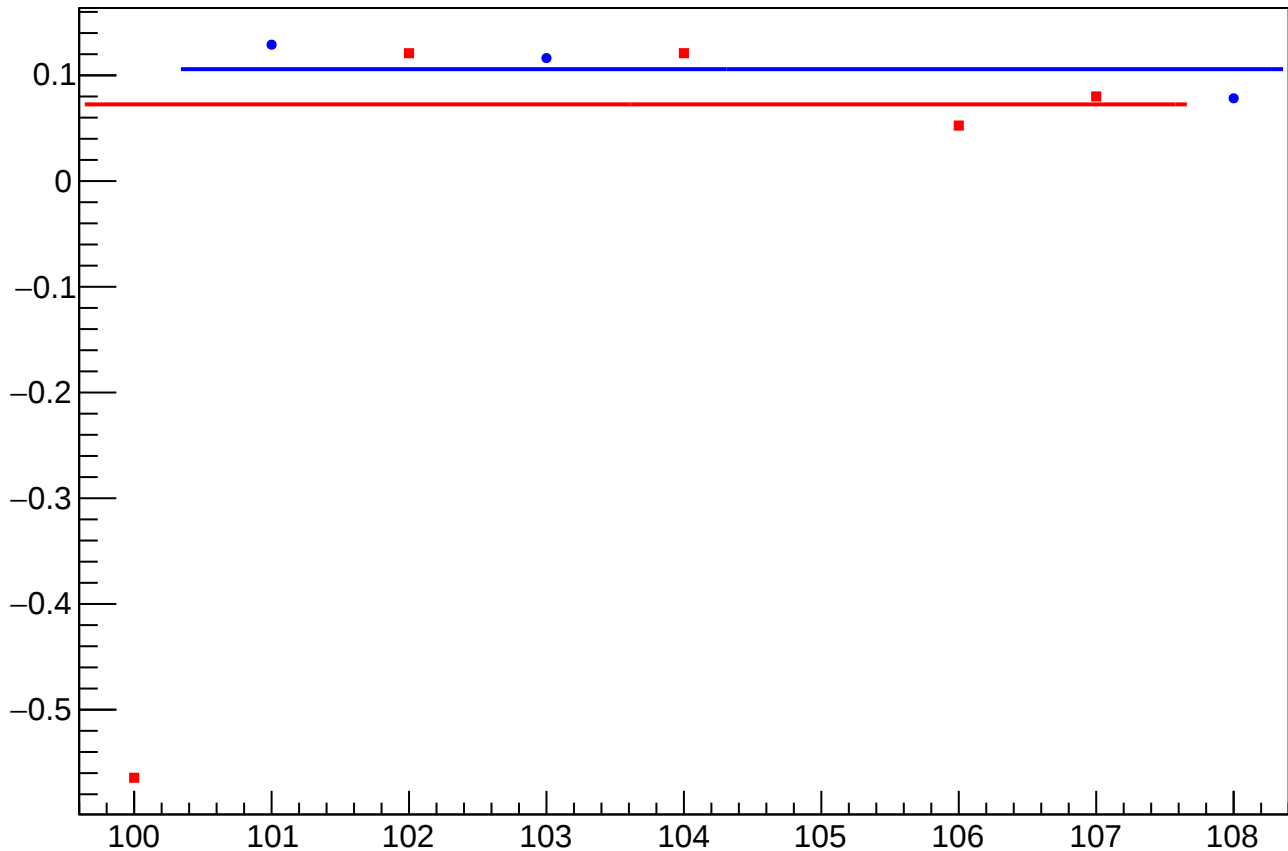
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 31688.5/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08X\_mean vs Slug



Right In: 0.106+/-0.000  $\chi^2/\text{NDF}$ : 6419765.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.073+/-0.000  $\chi^2/\text{NDF}$ : 219468475.7/4

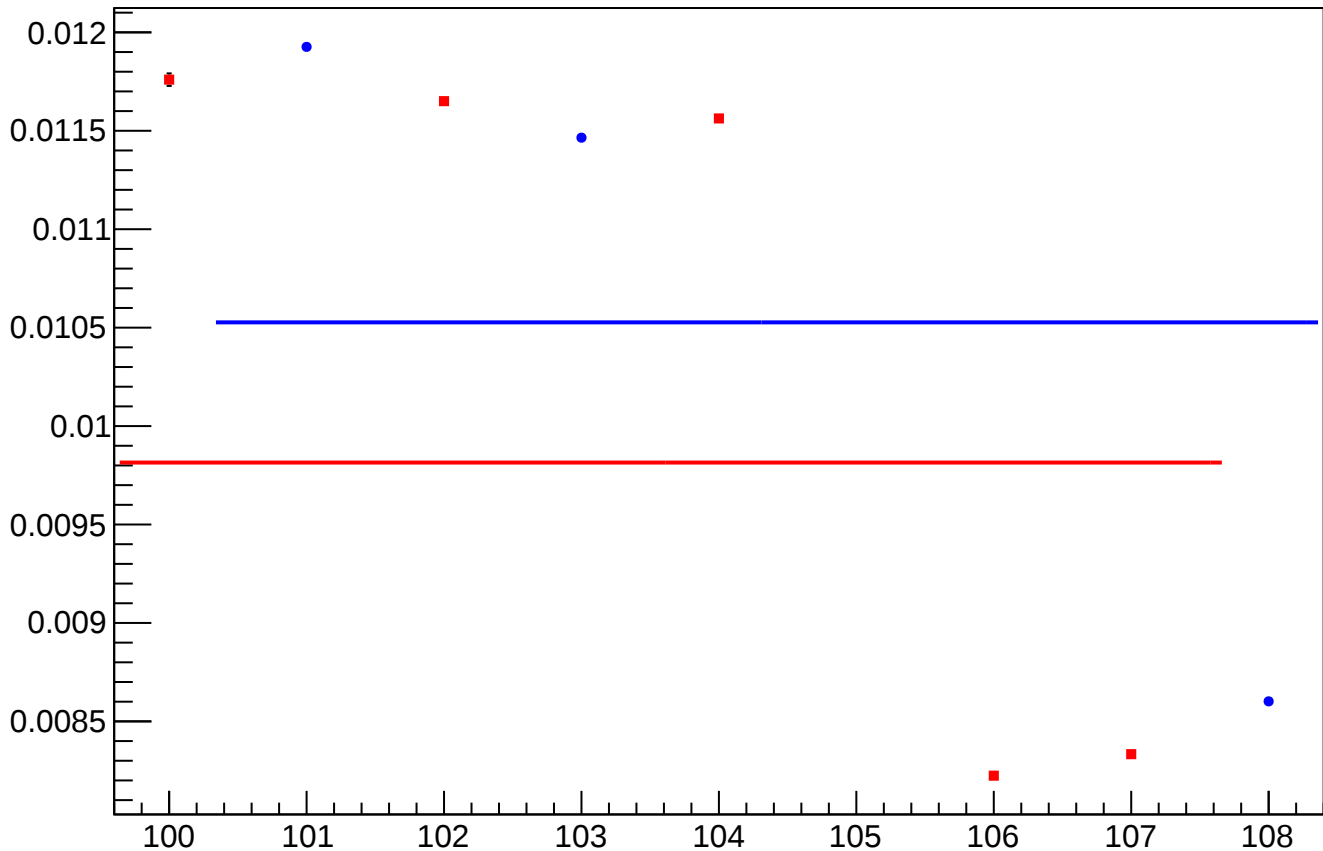
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.087+/-0.000  $\chi^2/\text{NDF}$ : 234229856.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08X\_rms vs Slug



Right In: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 60244.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 96085.5/4

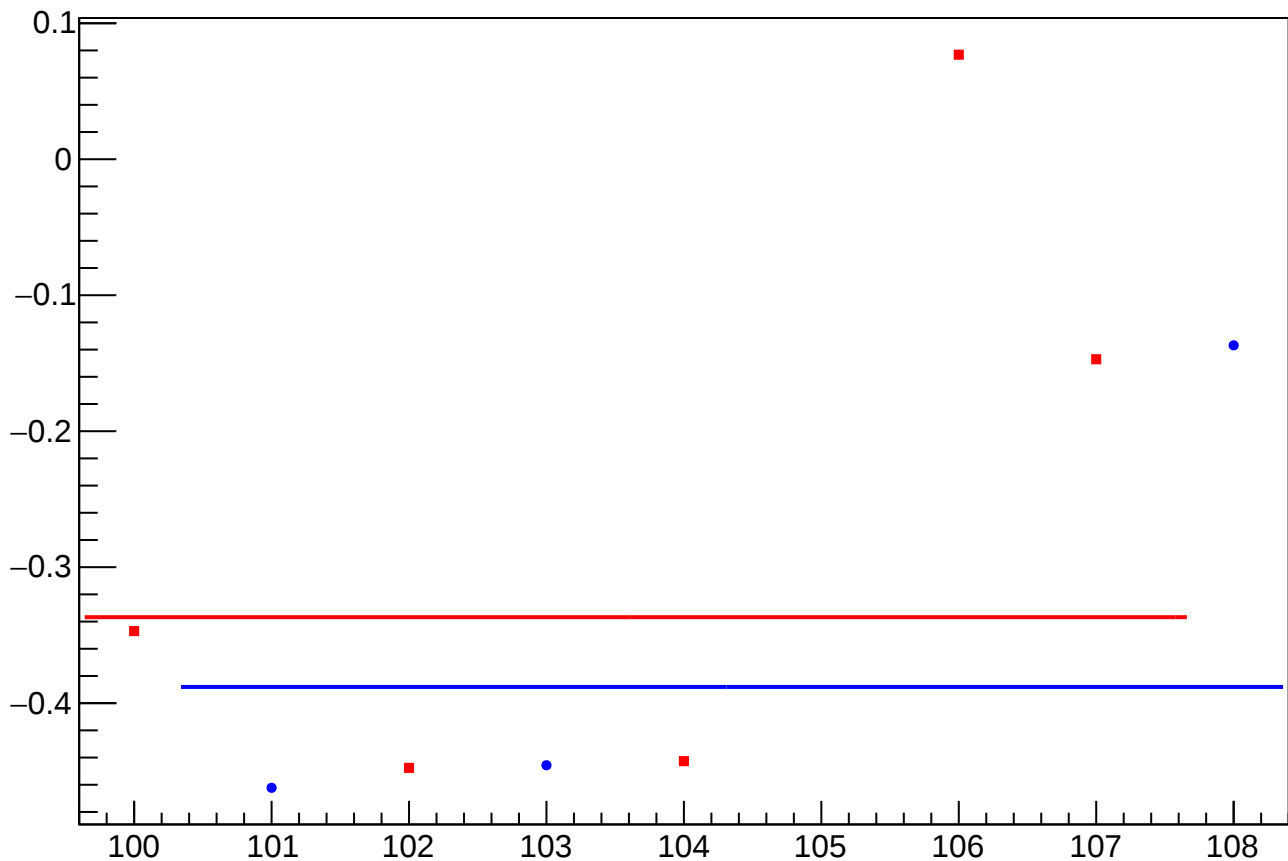
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 163954.9/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l08Y\_mean vs Slug



Right In: -0.388+/-0.000  $\chi^2/\text{NDF}$ : 1850944164.8/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.337+/-0.000  $\chi^2/\text{NDF}$ : 3450293395.6/4

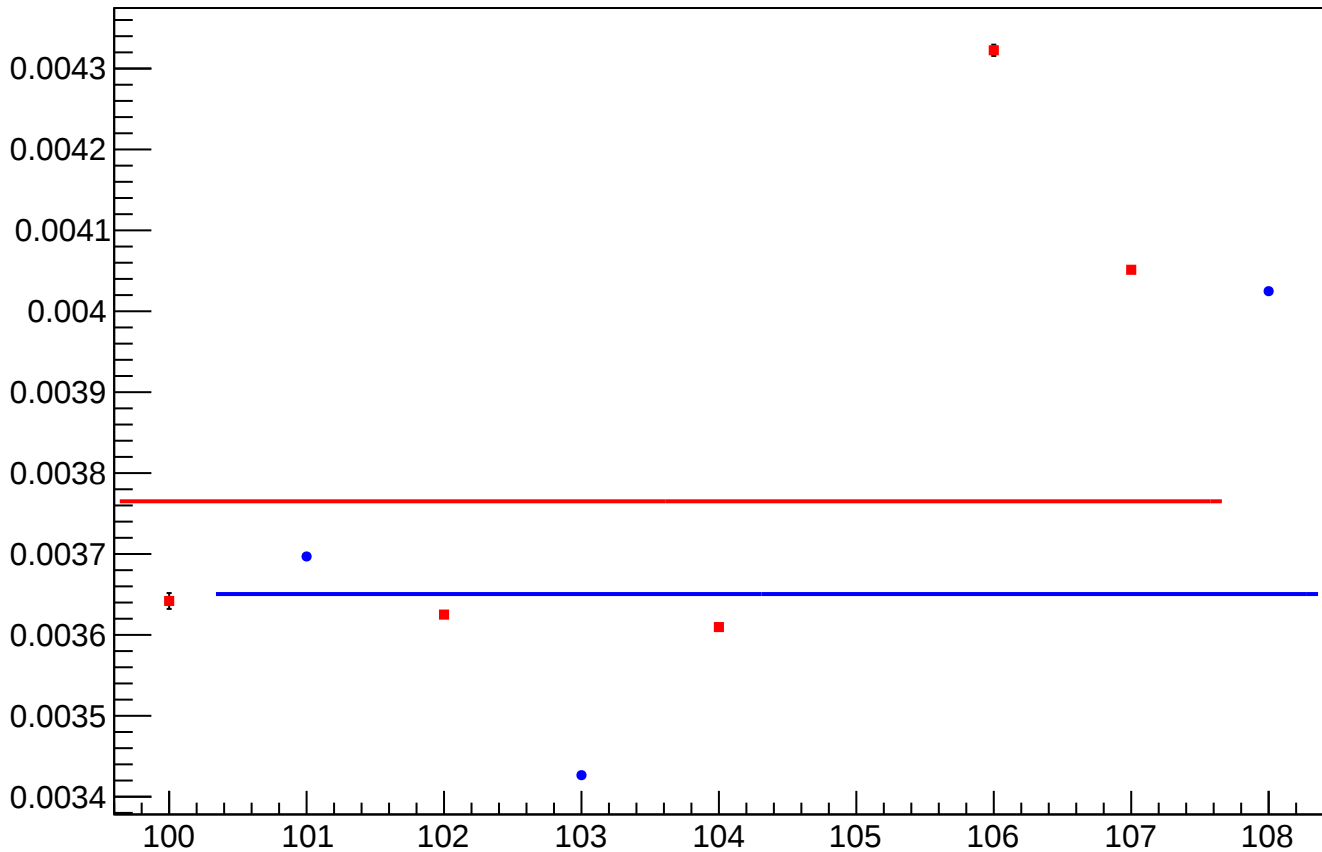
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.362+/-0.000  $\chi^2/\text{NDF}$ : 5449855006.9/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 11438.5/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 13452.5/4

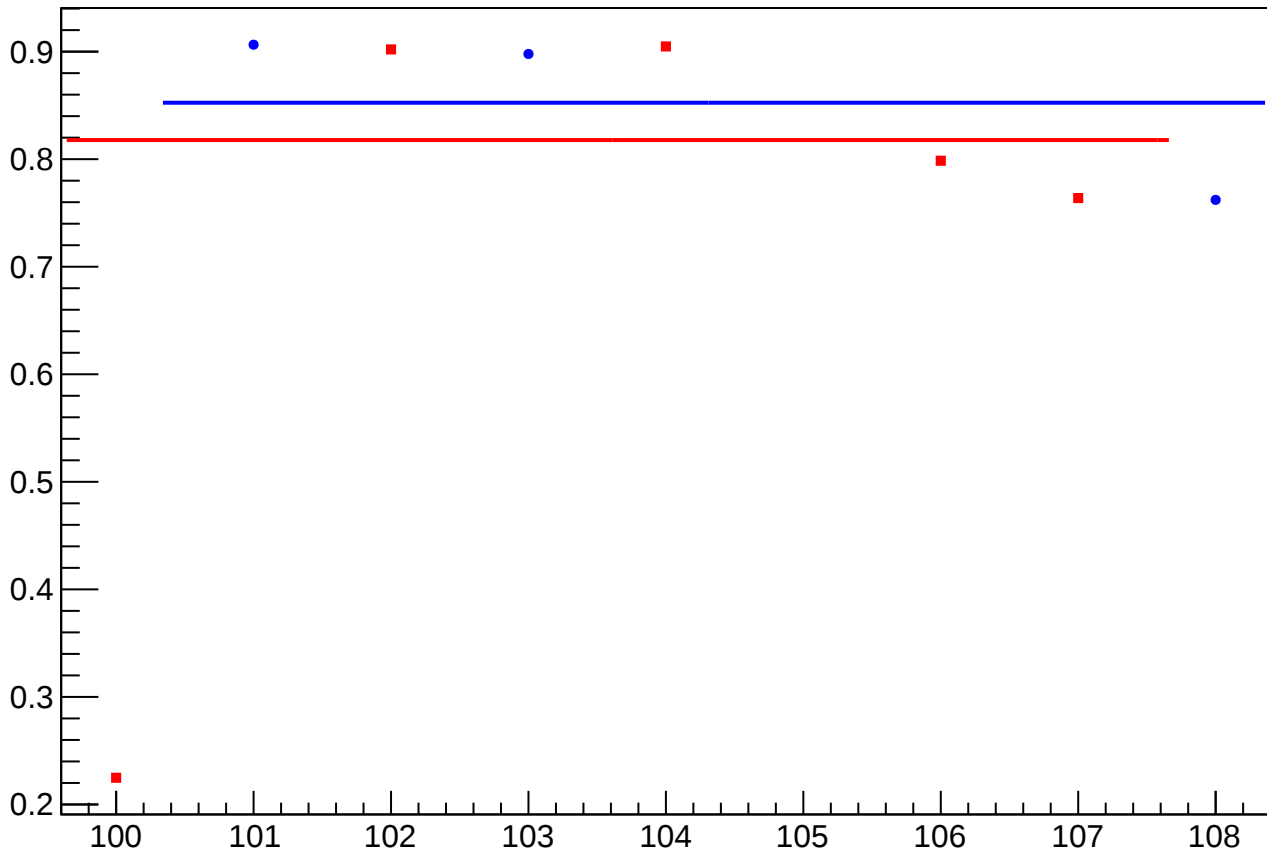
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 26375.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l09X\_mean vs Slug



Right In: 0.852 $\pm$ 0.000  $\chi^2$ /NDF: 50201622.6/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 0.818 $\pm$ 0.000  $\chi^2$ /NDF: 219235773.6/4

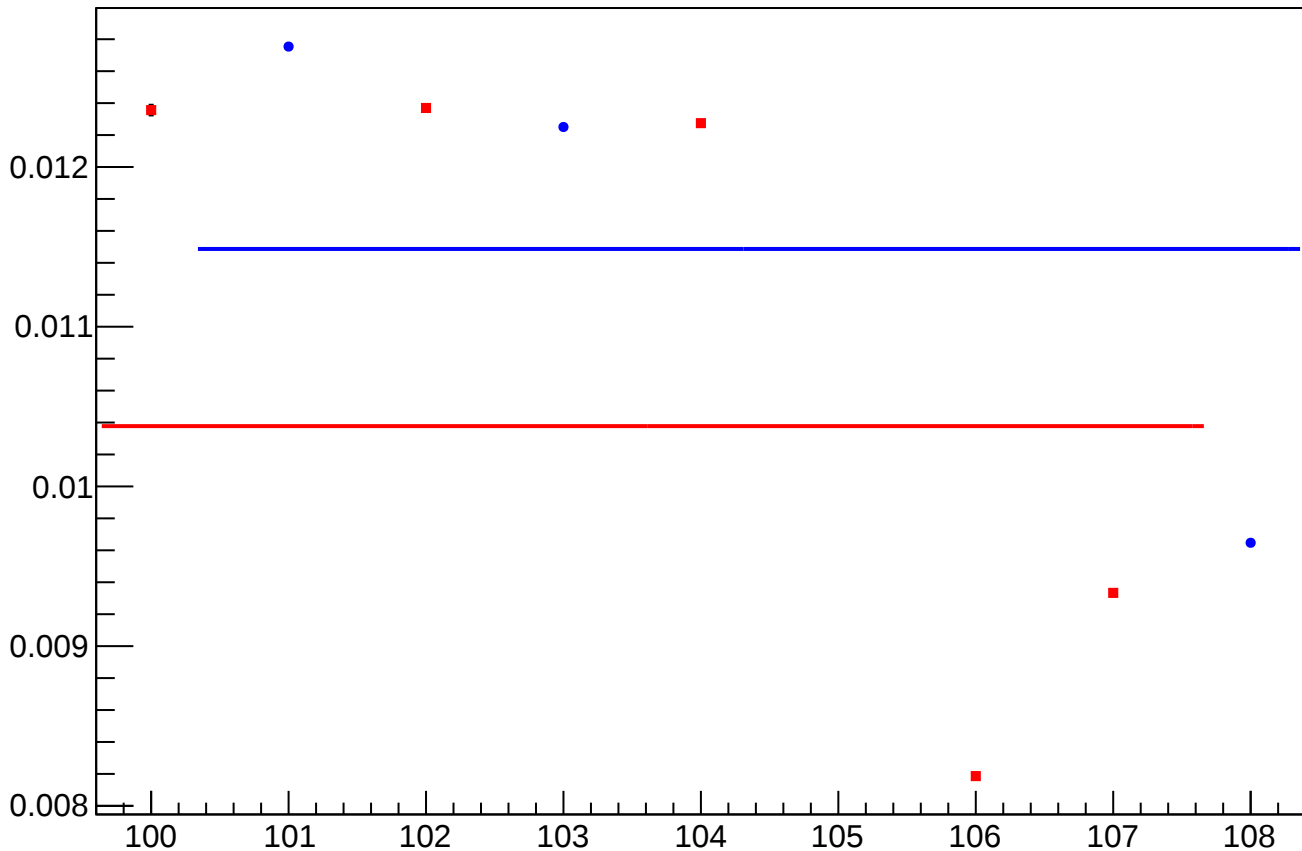
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.832 $\pm$ 0.000  $\chi^2$ /NDF: 277259949.3/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l09X\_rms vs Slug



Right In: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 42447.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 104507.9/4

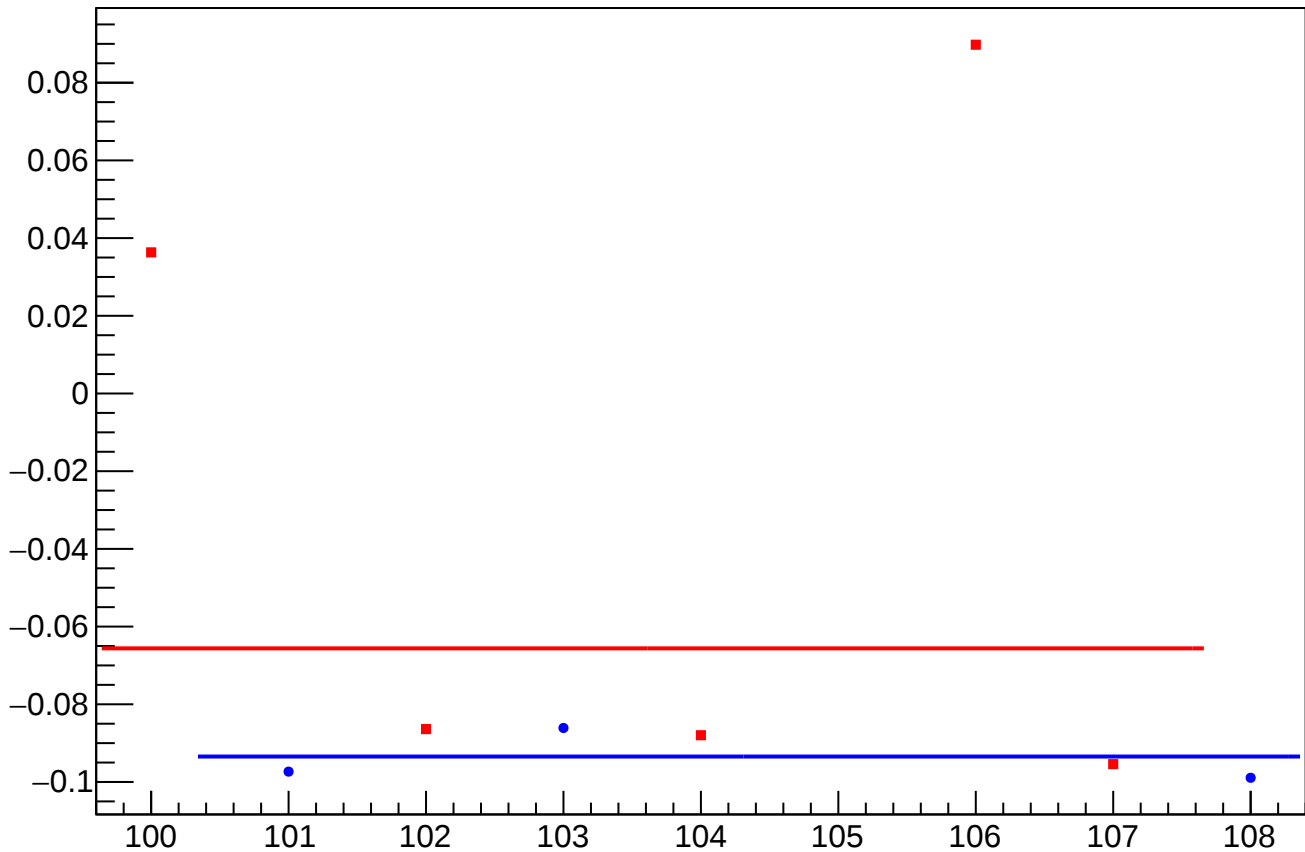
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 162933.4/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

yield\_bpm0l09Y\_mean vs Slug



Right In: -0.093+/-0.000  $\chi^2/\text{NDF}$ : 3322065.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.066+/-0.000  $\chi^2/\text{NDF}$ : 344059525.7/4

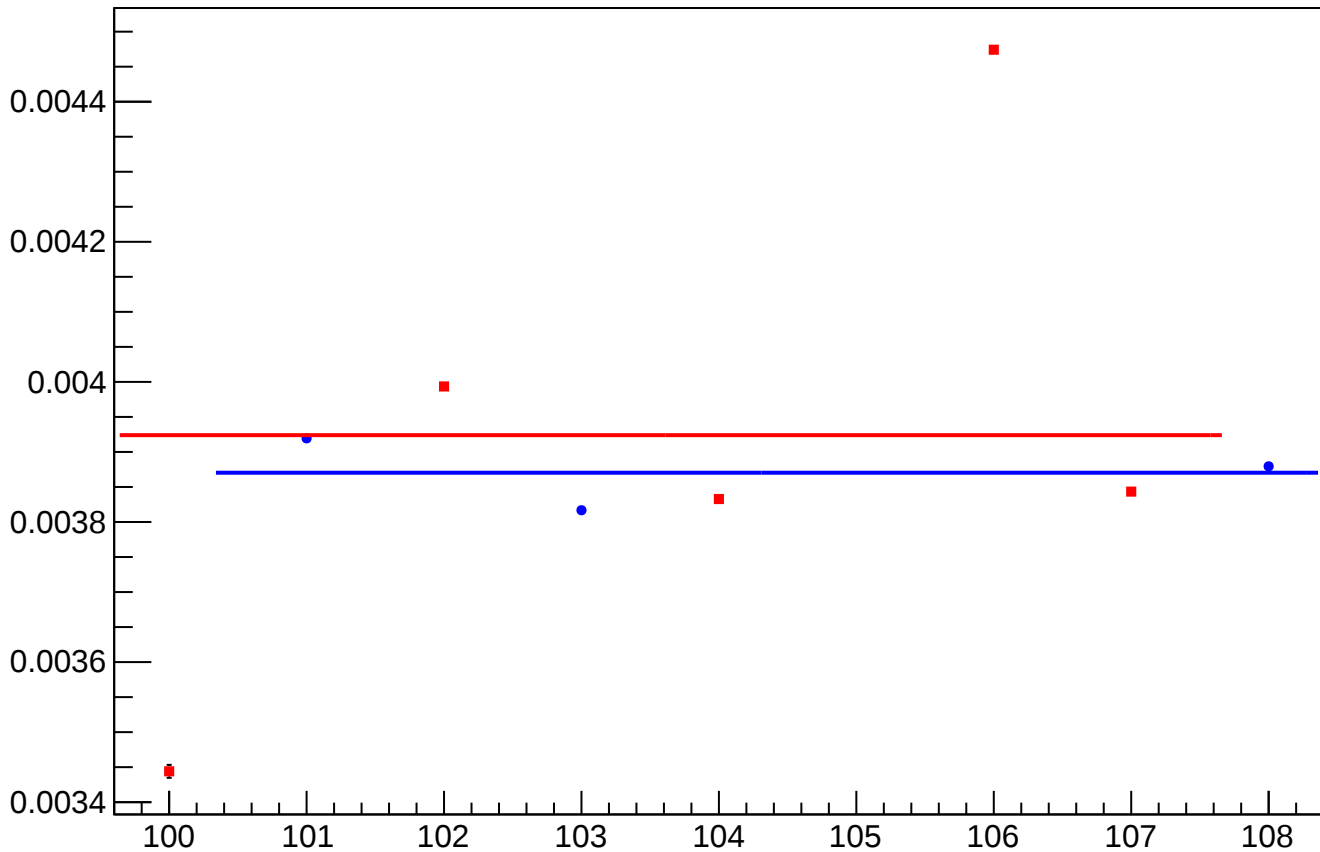
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.079+/-0.000  $\chi^2/\text{NDF}$ : 386552867.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l09Y\_rms vs Slug



Right In: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 395.3/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 9668.7/4

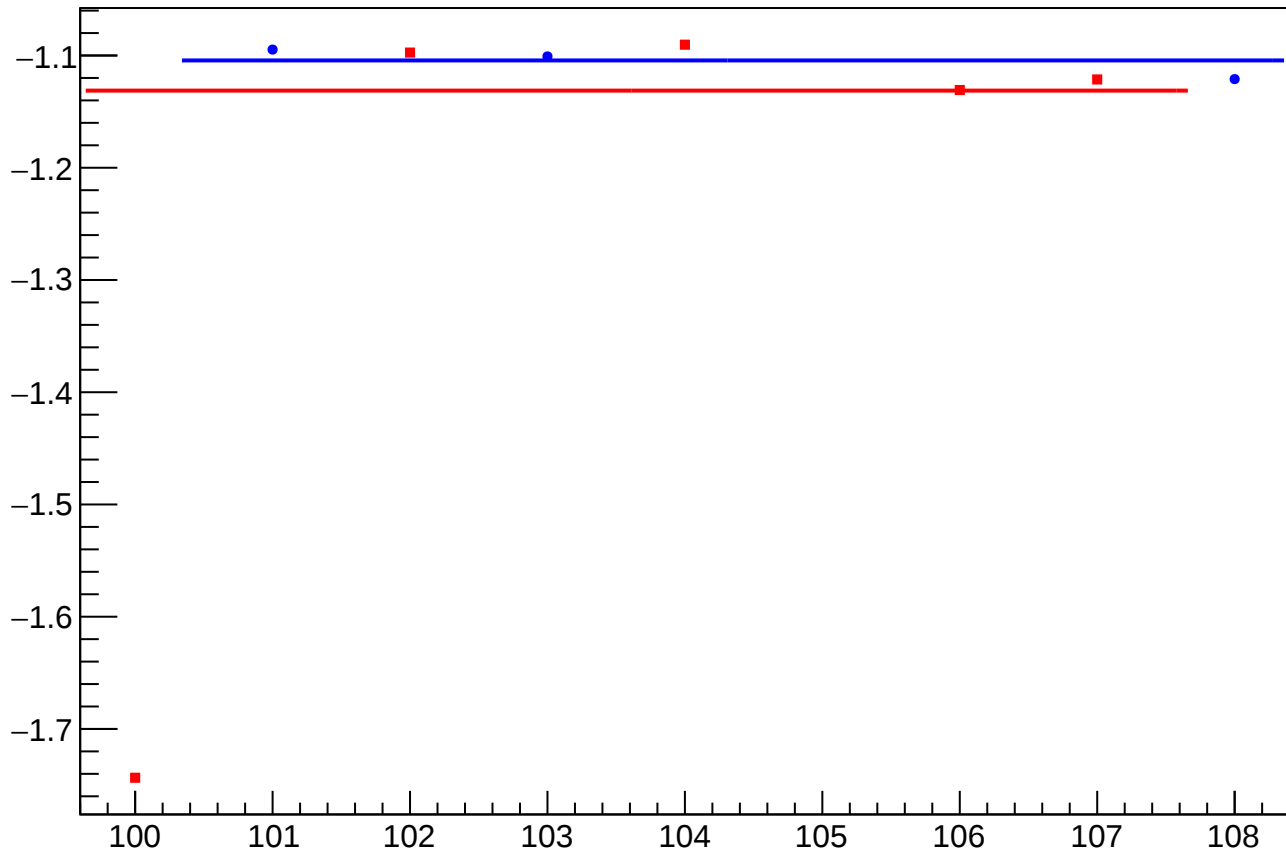
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.004 $\pm$ 0.000  $\chi^2$ /NDF: 10354.5/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l10X\_mean vs Slug



Right In: -1.104 $\pm$ 0.000  $\chi^2$ /NDF: 1305961.5/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.131 $\pm$ 0.000  $\chi^2$ /NDF: 203738676.3/4

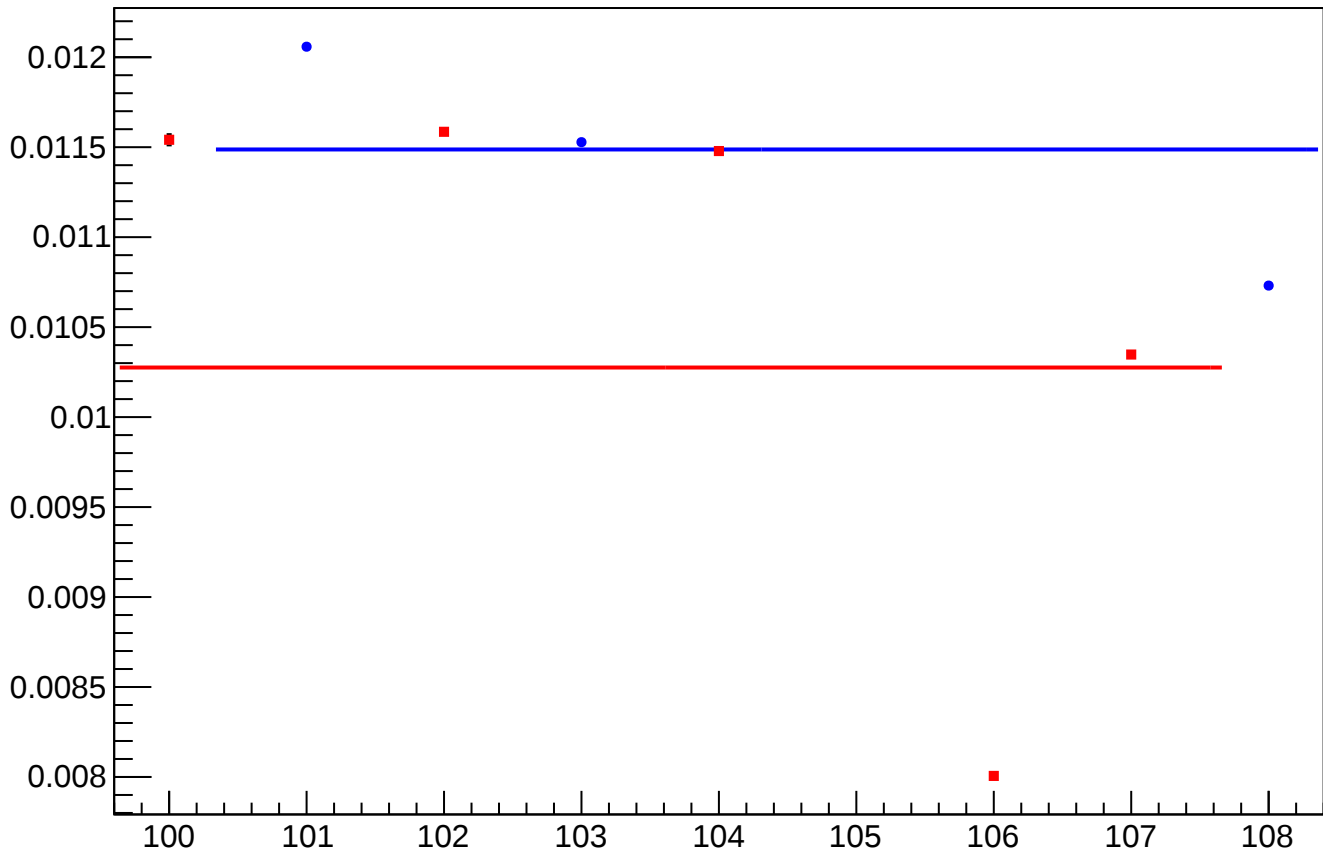
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: -1.120 $\pm$ 0.000  $\chi^2$ /NDF: 209817627.8/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l10X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 6231.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 72840.1/4

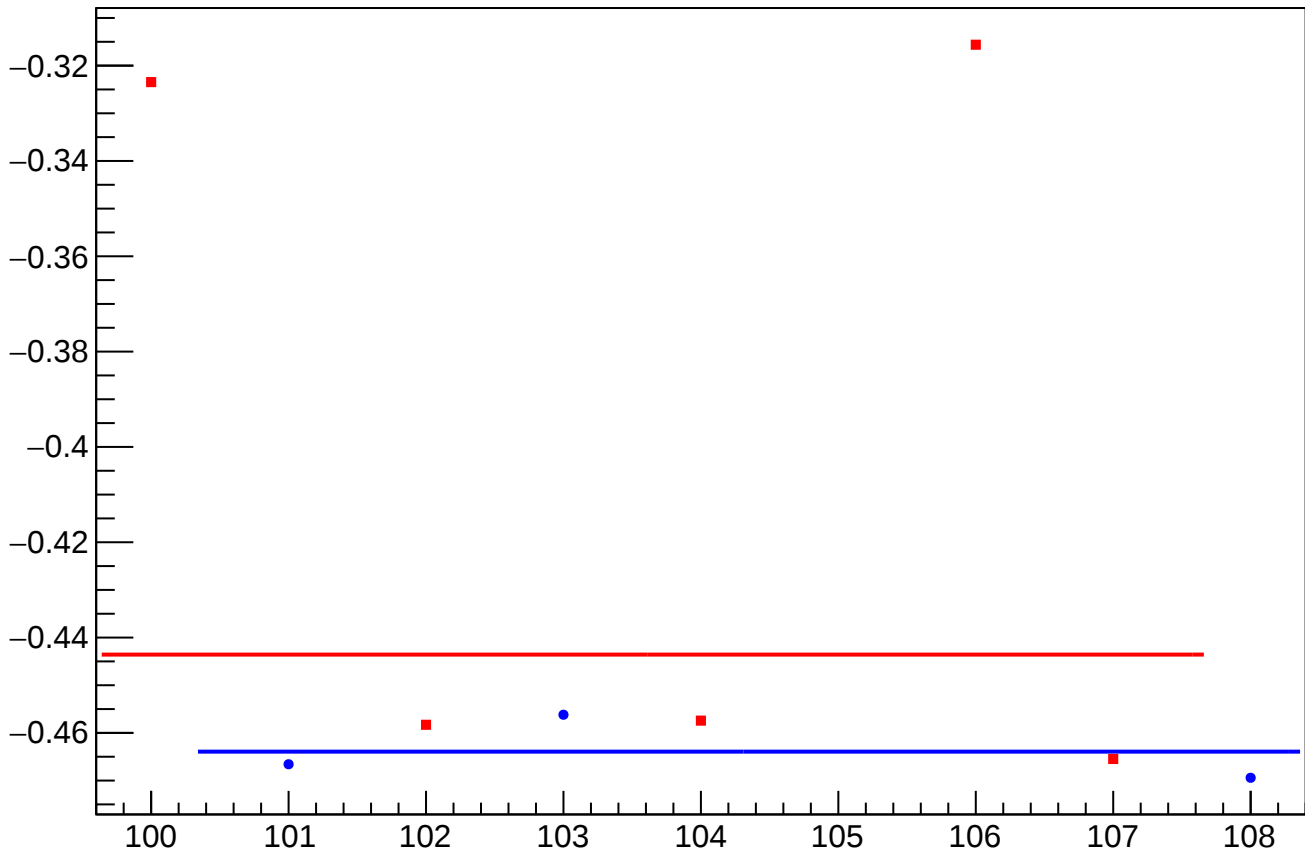
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 98476.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

yield\_bpm0l10Y\_mean vs Slug



Right In: -0.464+/-0.000  $\chi^2/\text{NDF}$ : 4100084.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.444+/-0.000  $\chi^2/\text{NDF}$ : 275027910.7/4

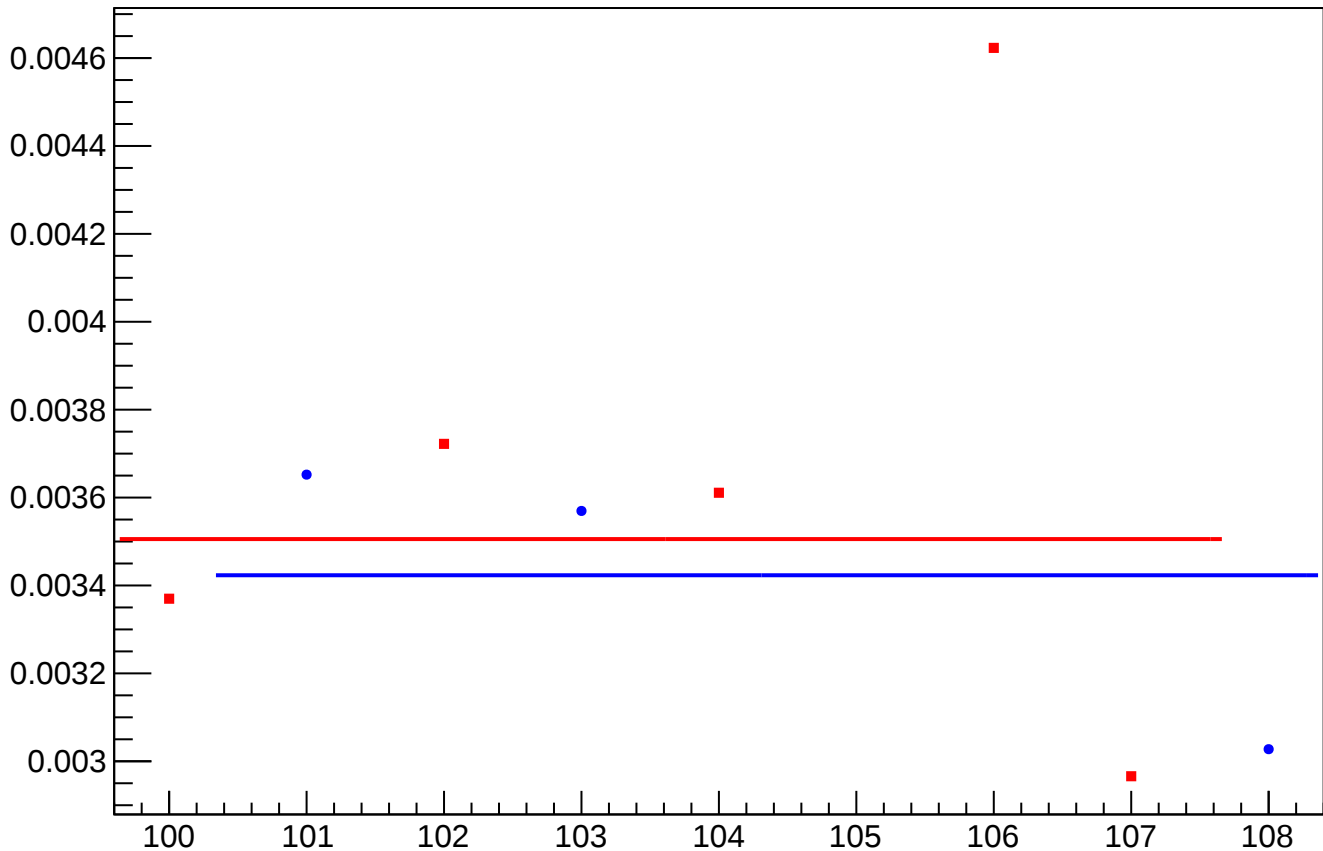
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.454+/-0.000  $\chi^2/\text{NDF}$ : 305539929.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10Y\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 18968.3/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 51236.9/4

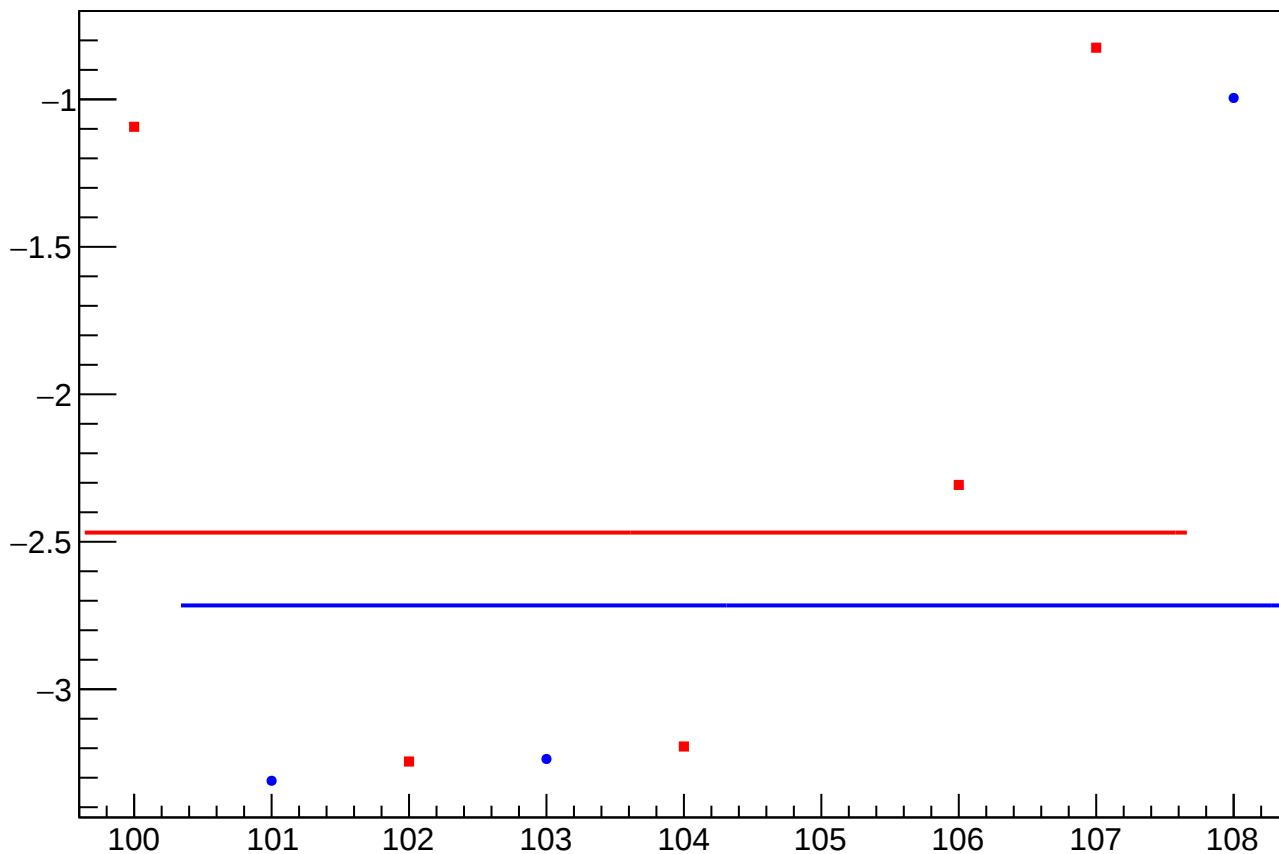
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 71068.6/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03X\_mean vs Slug



Right In: -2.716+/-0.000  $\chi^2/\text{NDF}$ : 281750702.1/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.469+/-0.000  $\chi^2/\text{NDF}$ : 333757966.1/4

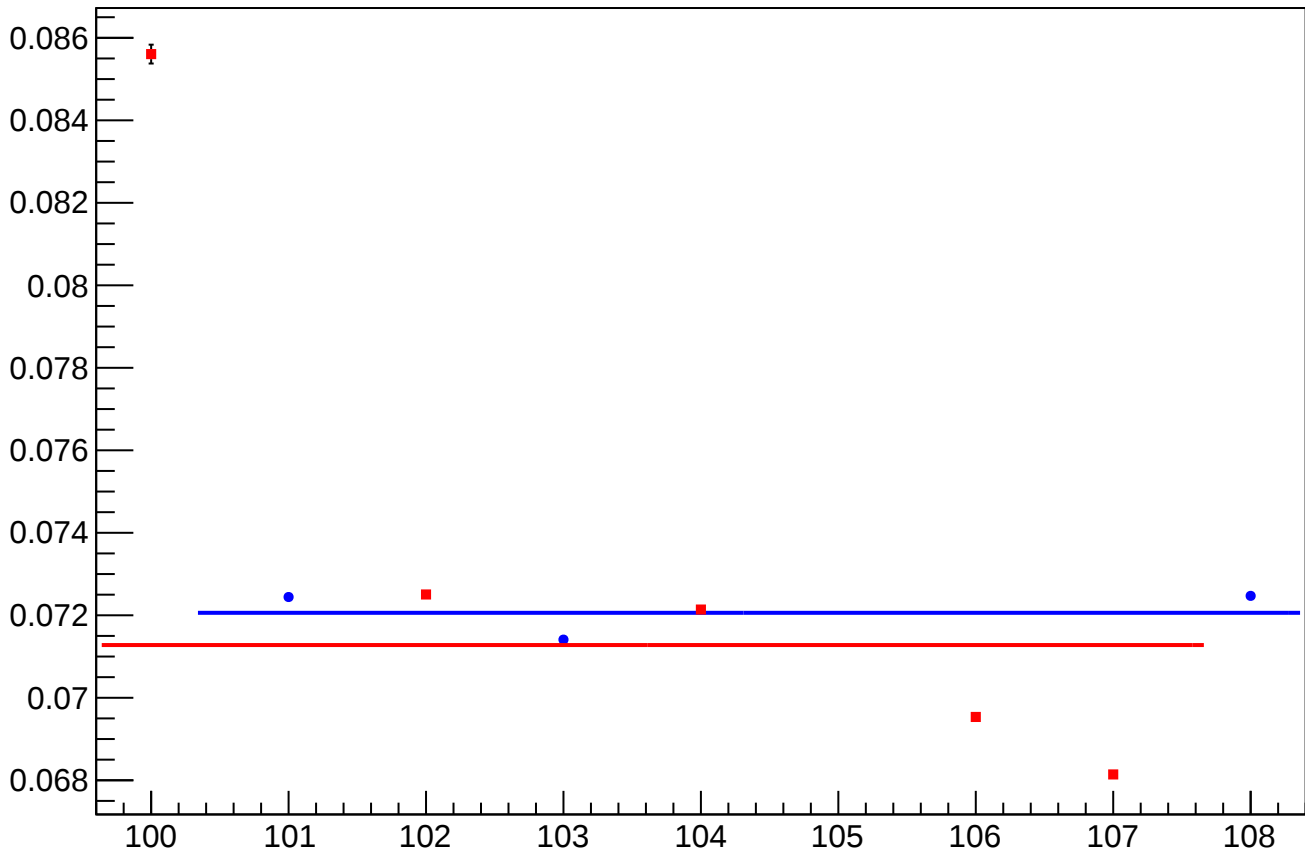
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.583+/-0.000  $\chi^2/\text{NDF}$ : 625132702.2/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03X\_rms vs Slug



Right In: 0.072+/-0.000  $\chi^2/\text{NDF}$ : 150.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.071+/-0.000  $\chi^2/\text{NDF}$ : 6234.9/4

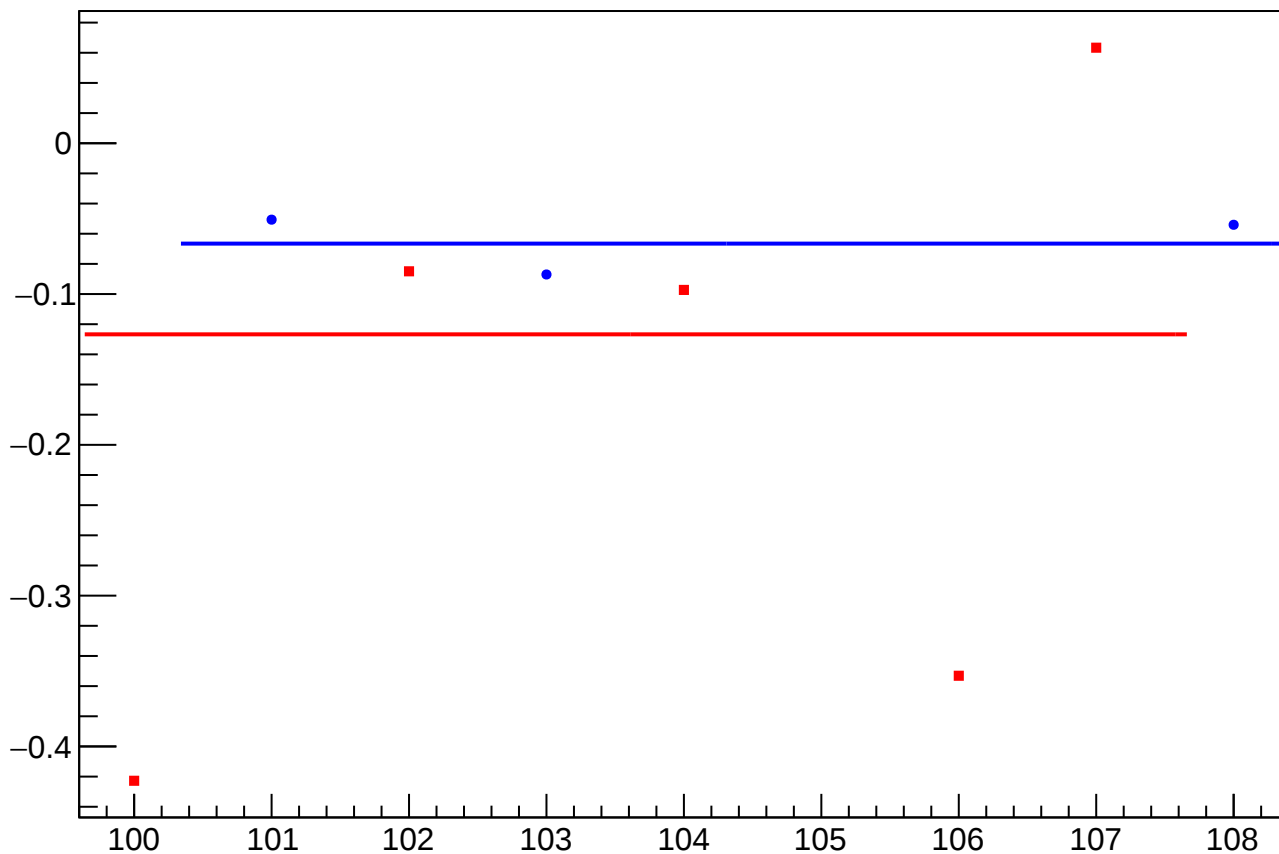
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.072+/-0.000  $\chi^2/\text{NDF}$ : 6577.8/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03Y\_mean vs Slug



Right In: -0.067+/-0.000  $\chi^2/\text{NDF}$ : 5024153.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.127+/-0.000  $\chi^2/\text{NDF}$ : 418629272.9/4

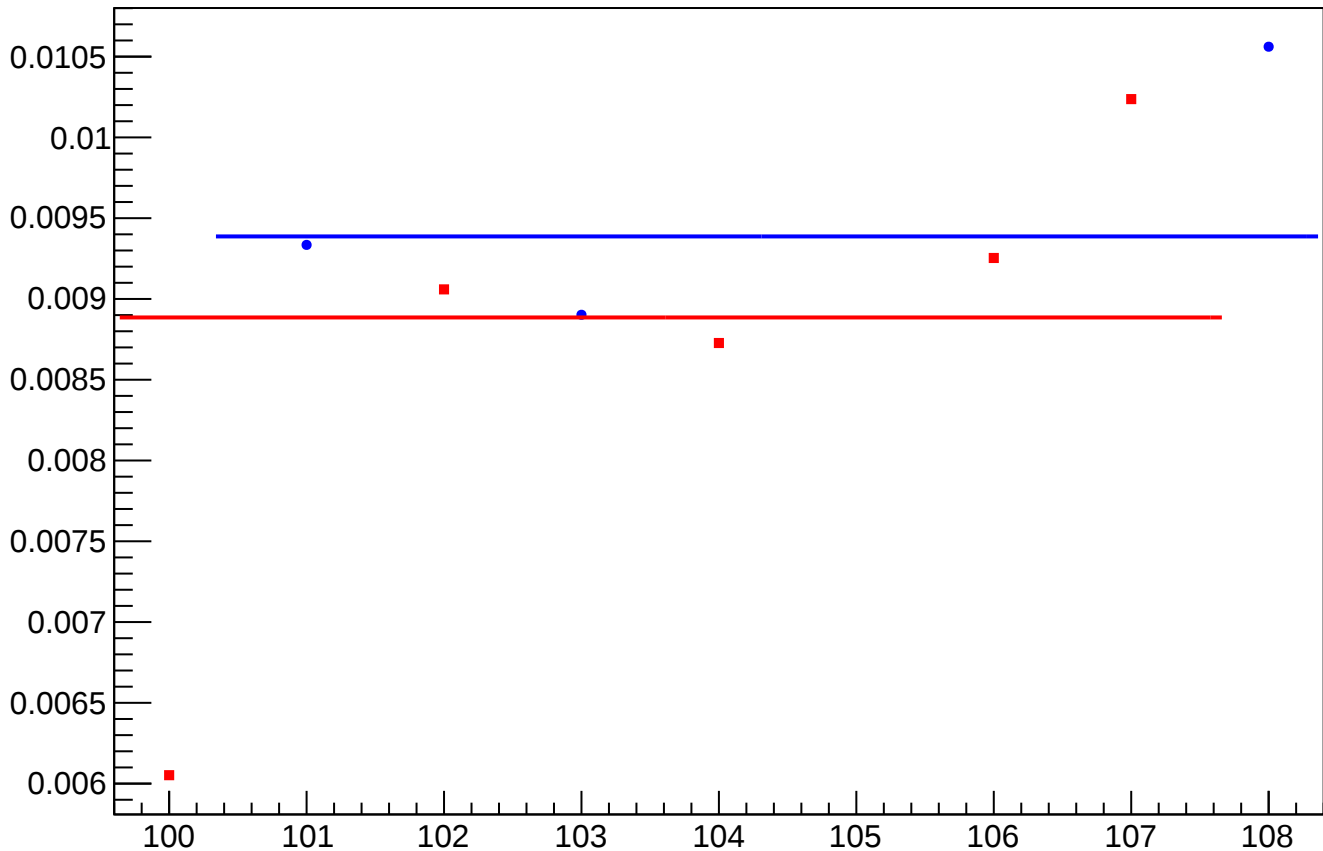
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.099+/-0.000  $\chi^2/\text{NDF}$ : 456432236.1/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03Y\_rms vs Slug



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 11986.4/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 44128.6/4

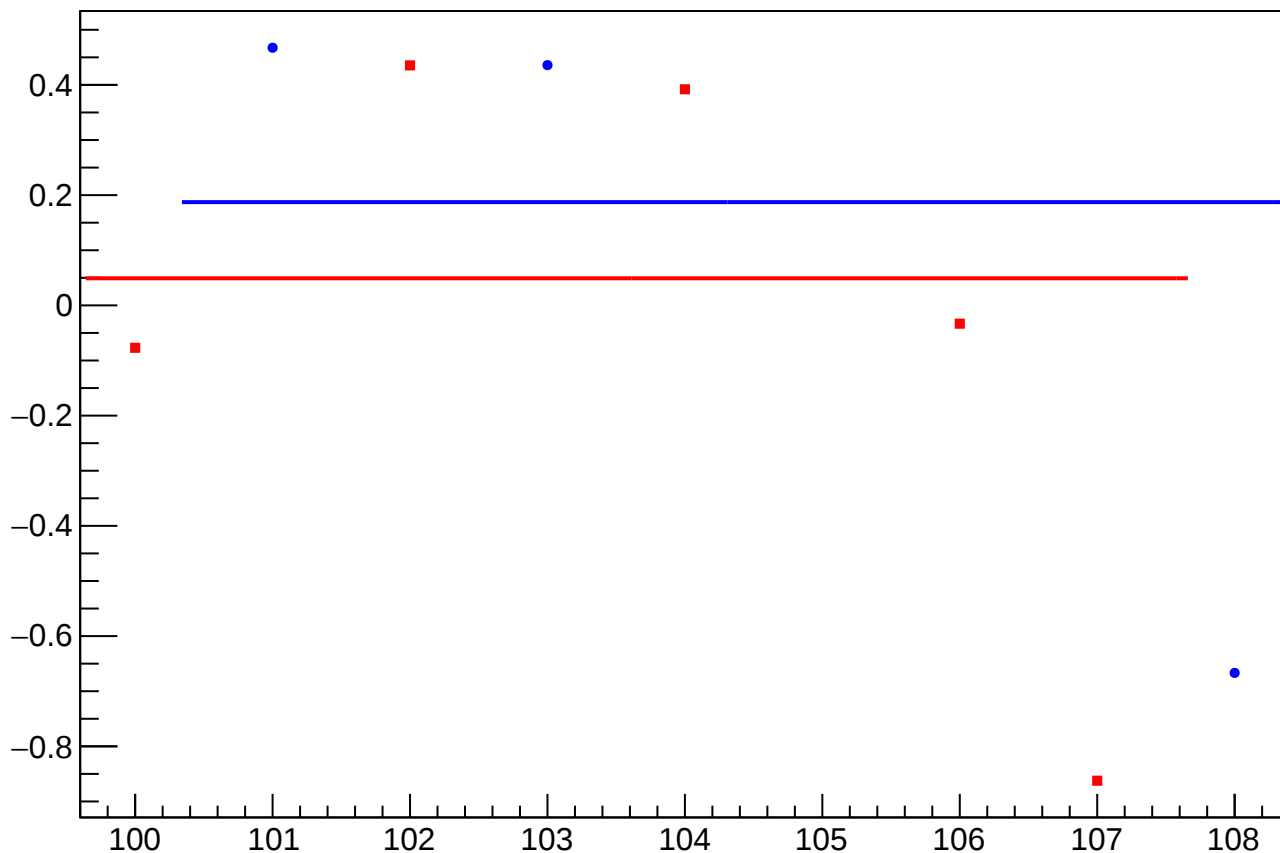
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 60671.7/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05X\_mean vs Slug



Right In: 0.187 $\pm$ 0.000  $\chi^2$ /NDF: 43400676.4/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.049 $\pm$ 0.000  $\chi^2$ /NDF: 56658997.7/4

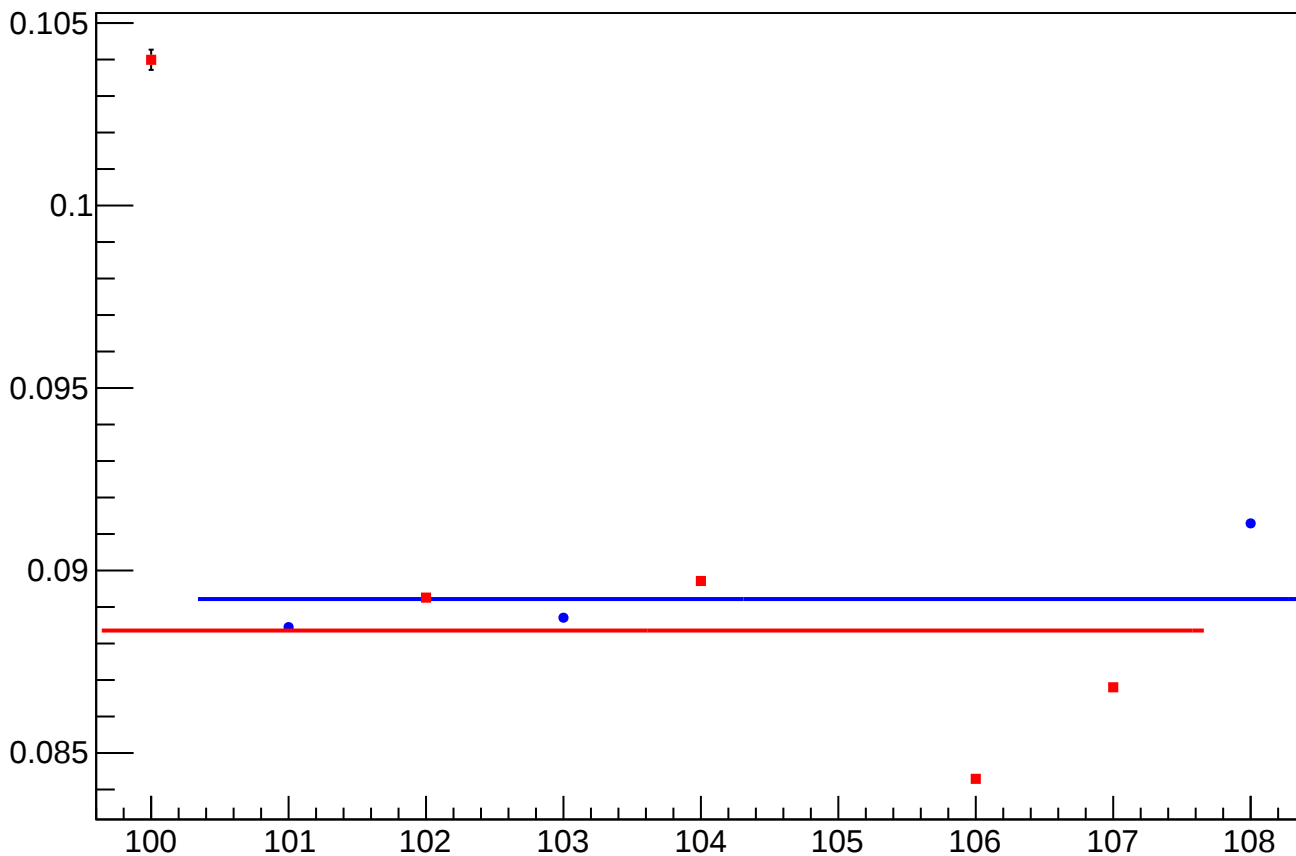
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.113 $\pm$ 0.000  $\chi^2$ /NDF: 102034891.5/7

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r05X\_rms vs Slug



Right In: 0.089+/-0.000  $\chi^2/\text{NDF}$ : 515.7/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.088+/-0.000  $\chi^2/\text{NDF}$ : 5138.7/4

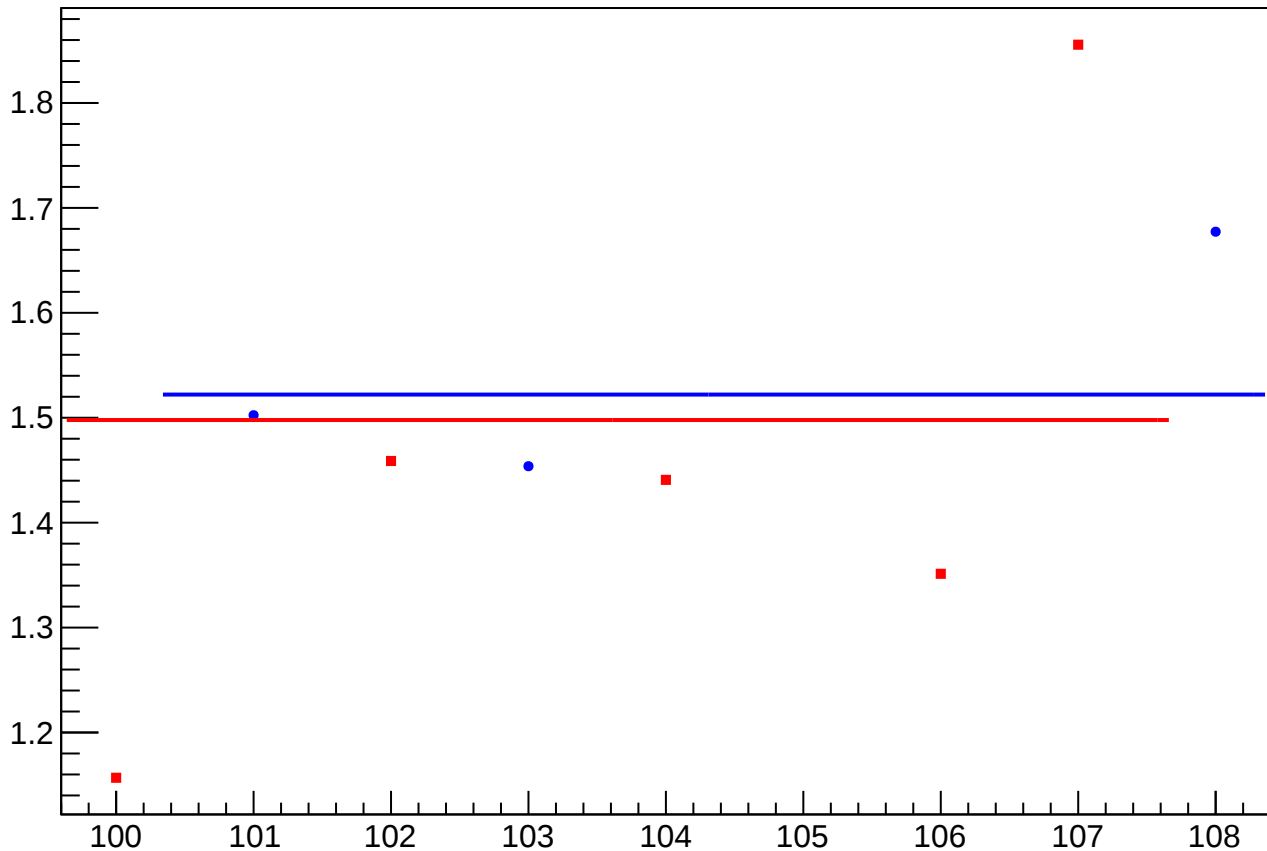
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.089+/-0.000  $\chi^2/\text{NDF}$ : 5808.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05Y\_mean vs Slug



Right In: 1.522+/-0.000  $\chi^2/\text{NDF}$ : 61028601.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.498+/-0.000  $\chi^2/\text{NDF}$ : 381452367.8/4

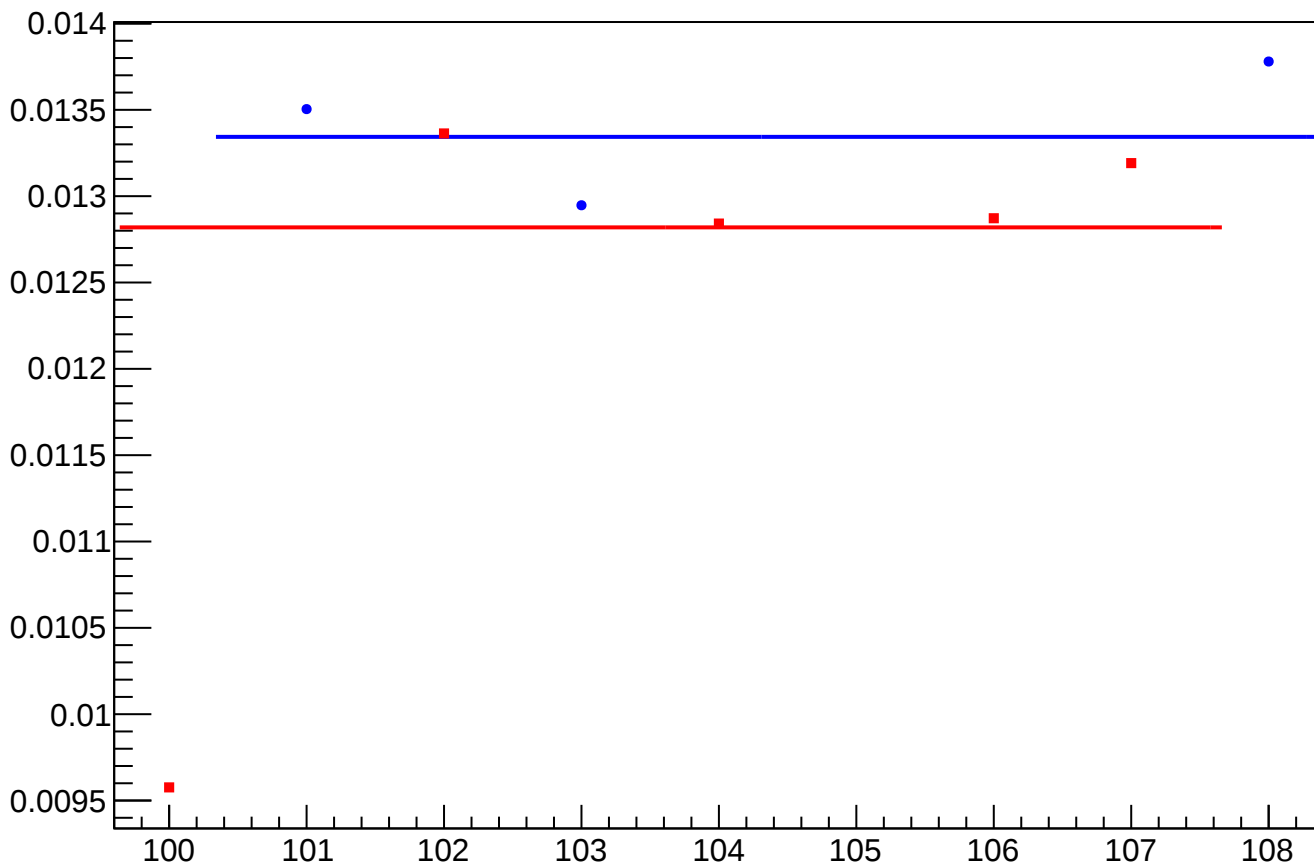
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.509+/-0.000  $\chi^2/\text{NDF}$ : 445111757.3/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05Y\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1898.2/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 18443.6/4

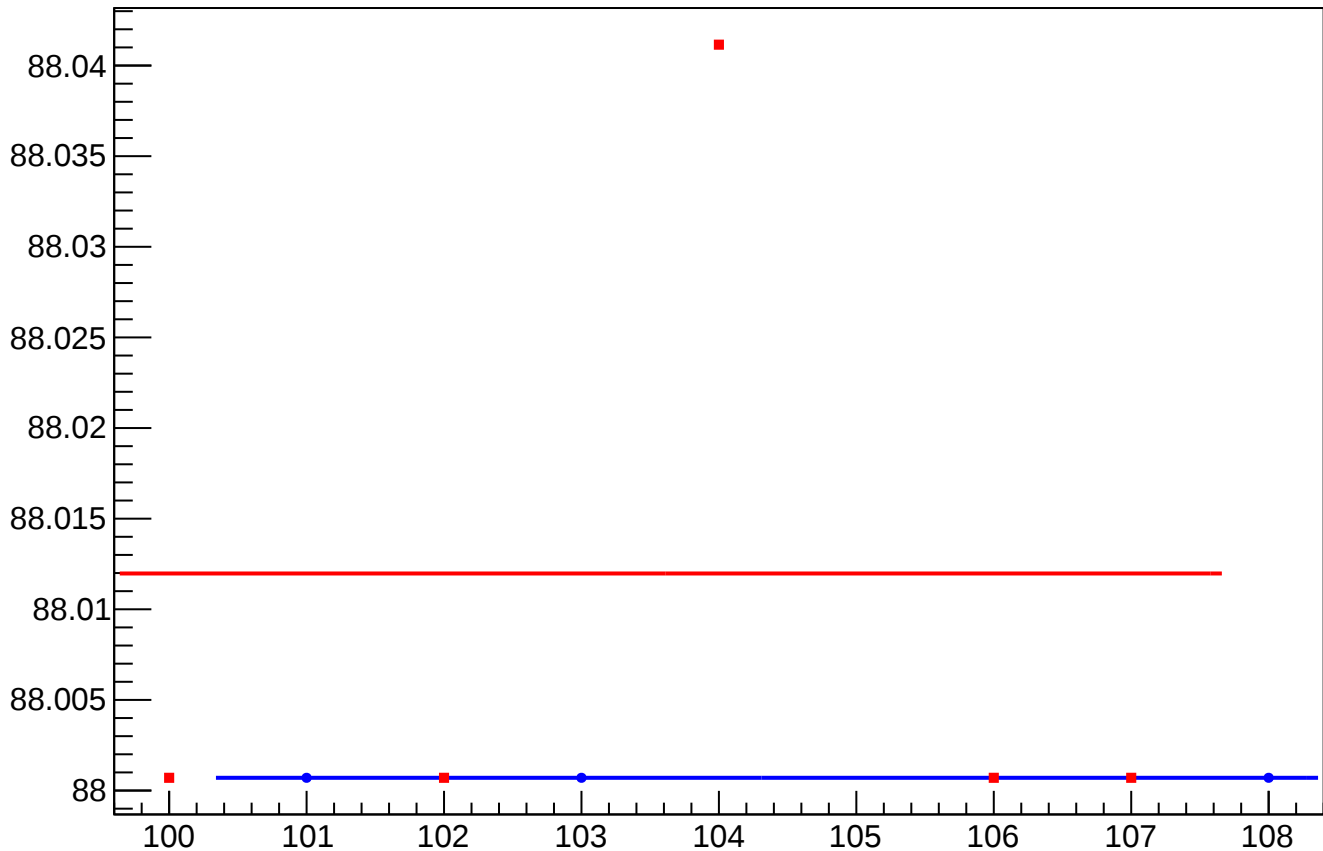
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 22797.4/7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# epics\_VWienAngles\_mean vs Slug



Right In: 88.001+/-0.000  $\chi^2/\text{NDF}$ : 371585.0/2

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

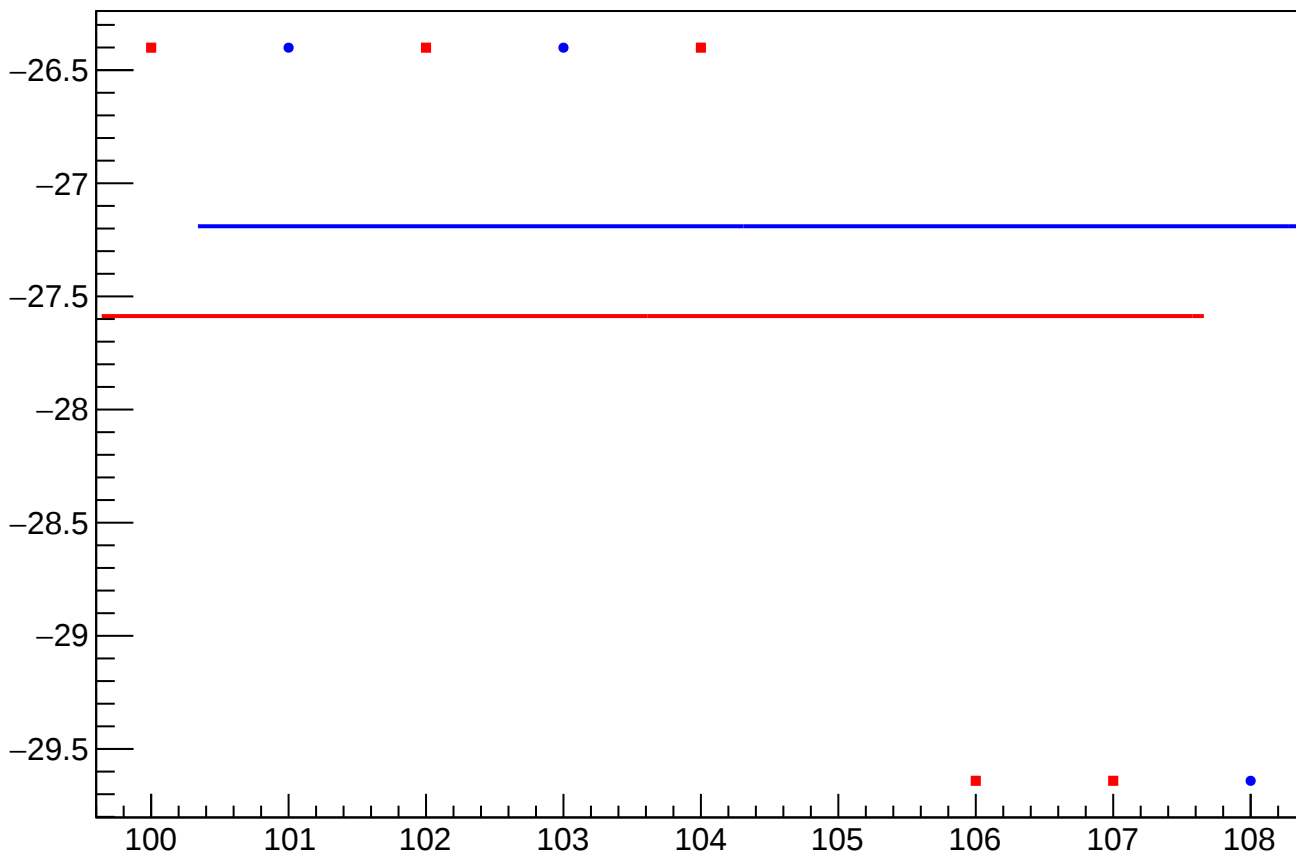
Right Out: 88.012+/-0.000  $\chi^2/\text{NDF}$ : 60186116251712700433439916032.0/4

All: 88.007+/-0.000  $\chi^2/\text{NDF}$ : 7088694625308

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# epics\_HWienAngles\_mean vs Slug



Right In: -27.190+/-0.000  $\chi^2/\text{NDF}$ : 301738707692315803916506054524928.0/2

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

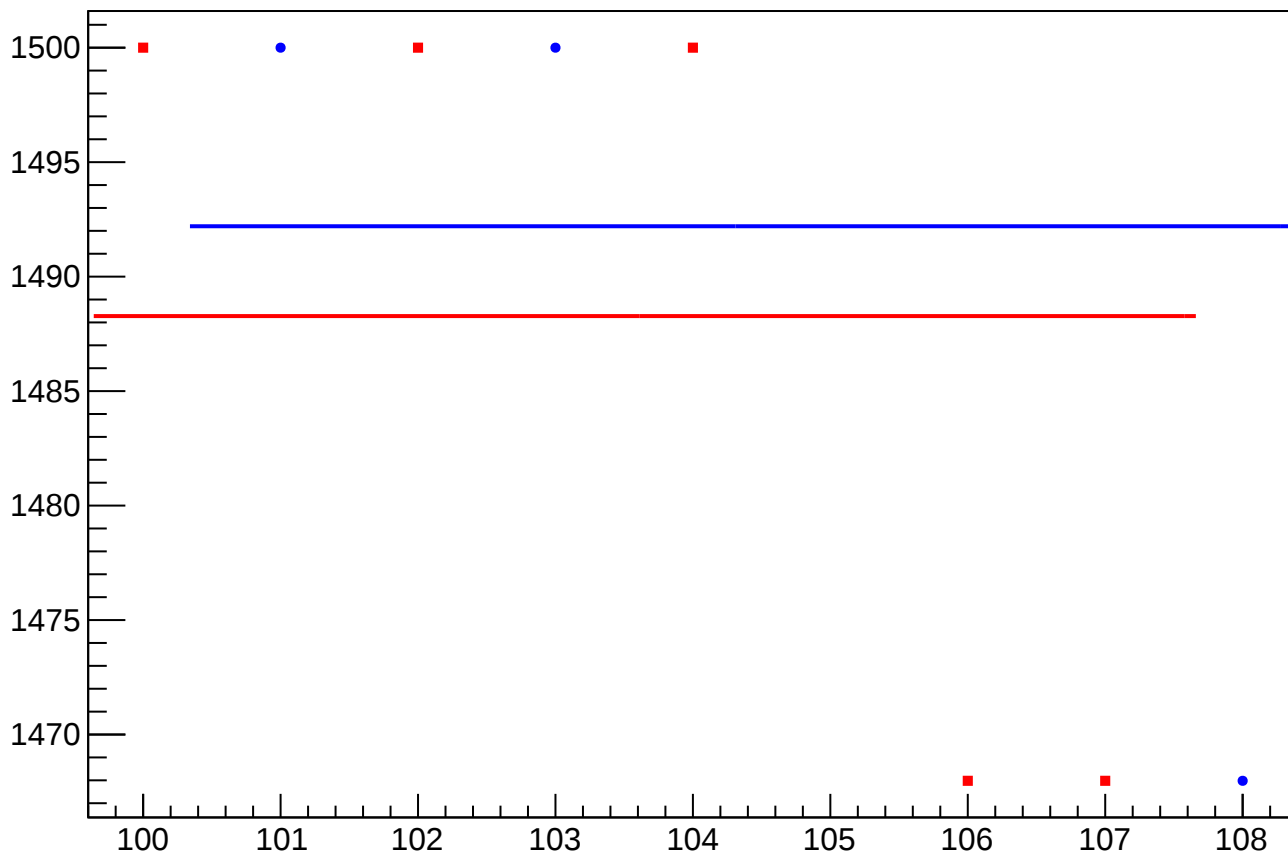
All: -27.404+/-0.000  $\chi^2/\text{NDF}$ : 760843752212

Right Out: -27.587+/-0.000  $\chi^2/\text{NDF}$ : 445832498360663089361785228099584.0/4

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# epics\_psub\_pl\_poss\_mean vs Slug



Right In: 1492.201+/-0.000  $\chi^2/\text{NDF}$ : 29472827786484245695574790203506688.0/2

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

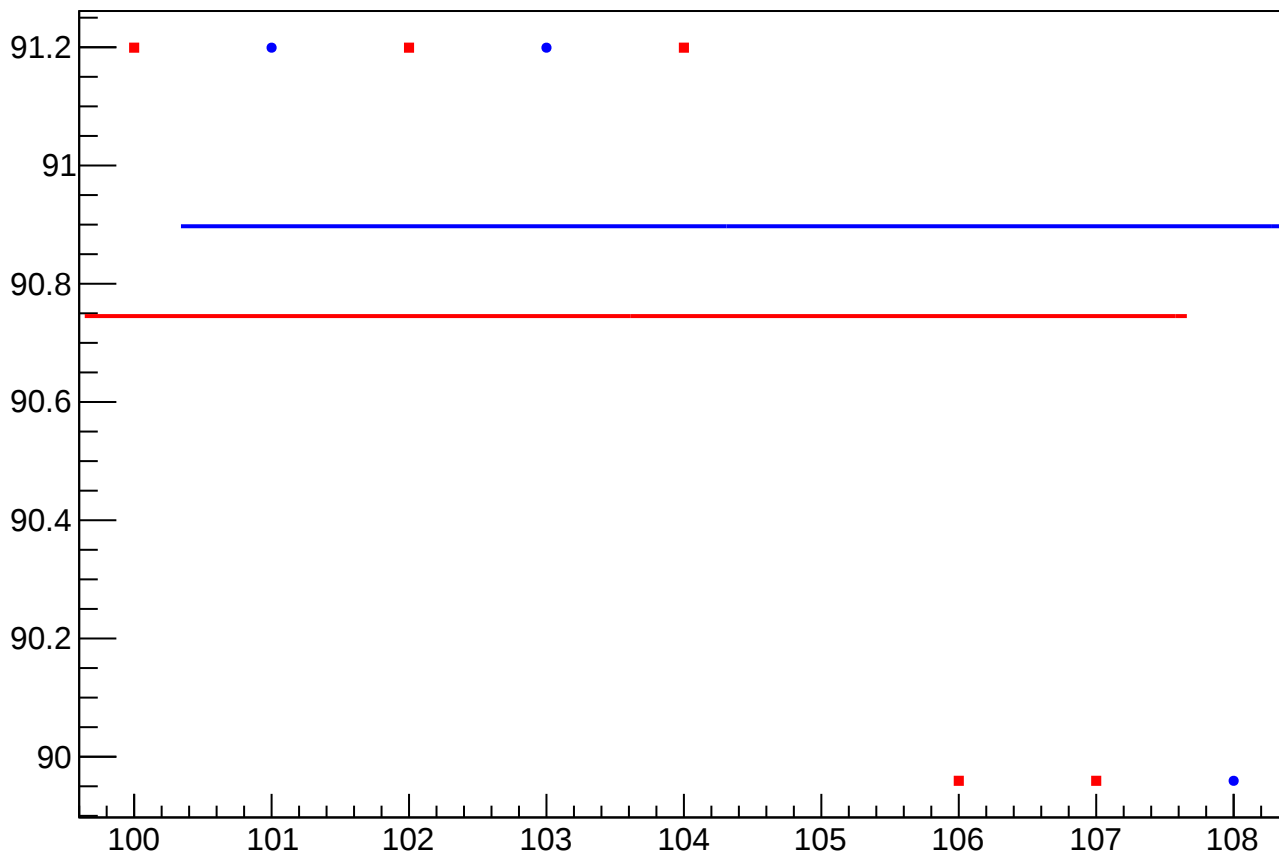
All: 1490.083+/-0.000  $\chi^2/\text{NDF}$ : 74316673034

Right Out: 1488.277+/-0.000  $\chi^2/\text{NDF}$ : 43547427329746348213173306152452096.0/4

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# epics\_Phi\_FGs\_mean vs Slug



Right In: 90.897+/-0.000  $\chi^2/\text{NDF}$ : 44196143589747245030443132649472.0/2

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

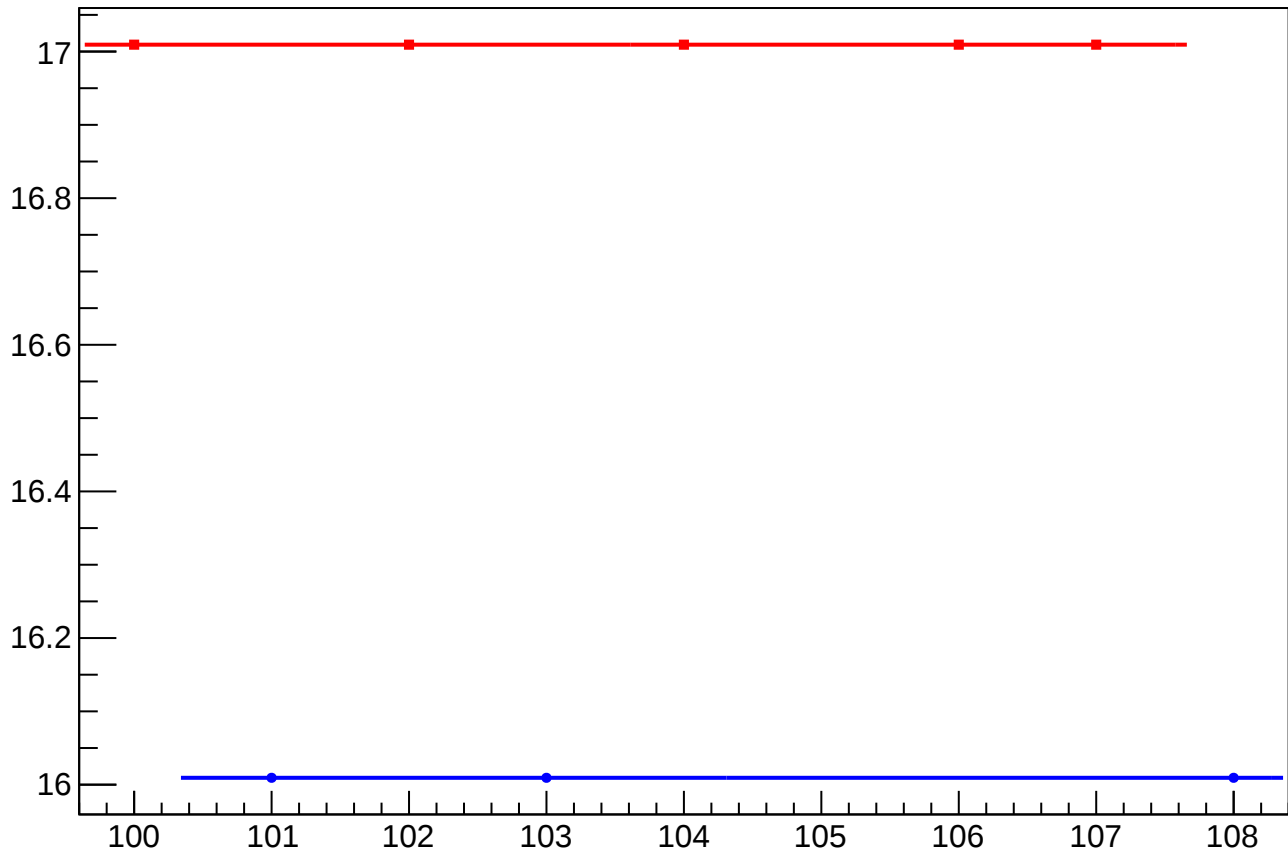
All: 90.815+/-0.000  $\chi^2/\text{NDF}$ : 1114419823008

Right Out: 90.745+/-0.000  $\chi^2/\text{NDF}$ : 65301787978147911427302151421952.0/4

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# epics\_IGL1I00DI24\_24Ms\_mean vs Slug



Right In: 16.009 $\pm$ 0.000  $\chi^2$ /NDF: 5806.0/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 17.009 $\pm$ 0.000  $\chi^2$ /NDF: 17455.9/4

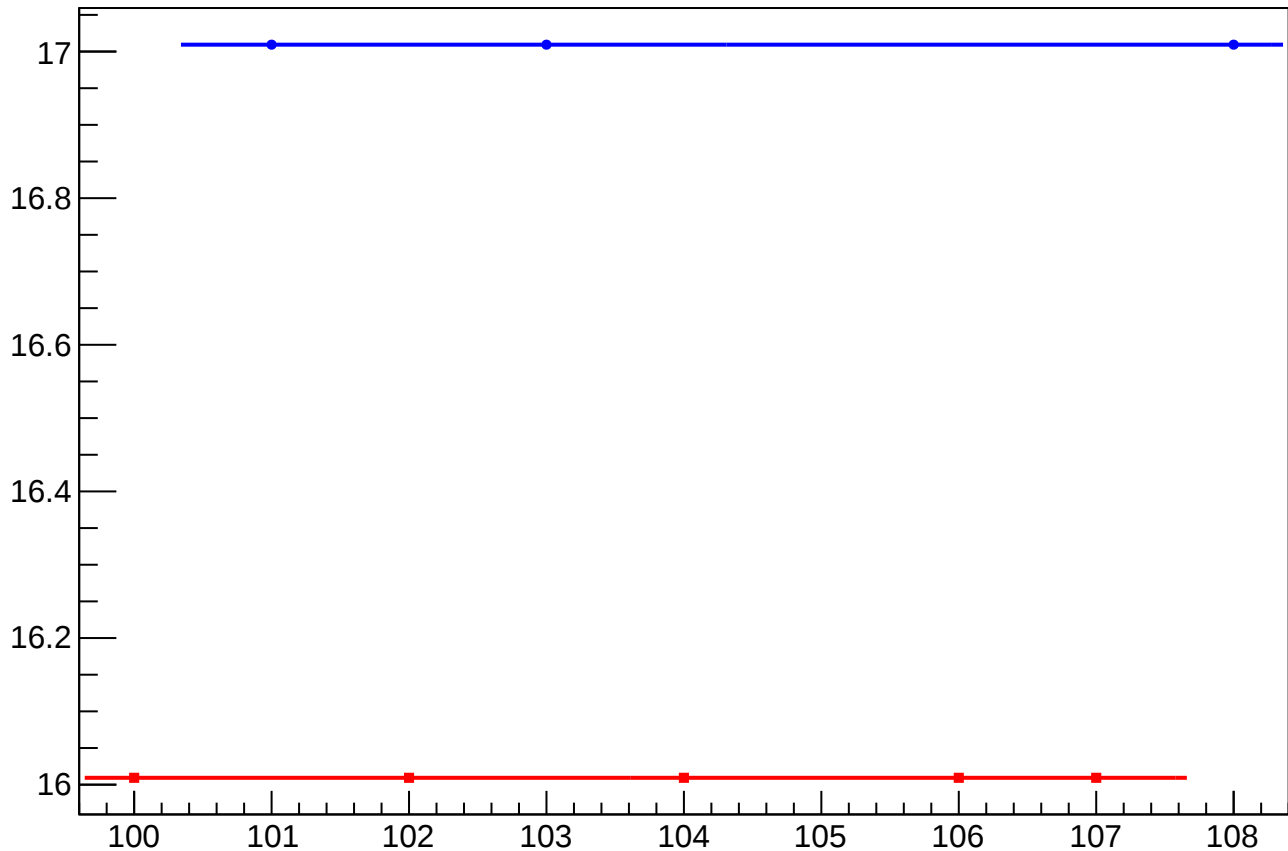
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.535 $\pm$ 0.000  $\chi^2$ /NDF: 820303951367

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# epics\_IGL1I00OD16\_16s\_mean vs Slug



Right In: 17.009 $\pm$ 0.000  $\chi^2$ /NDF: 6904.1/2

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.009 $\pm$ 0.000  $\chi^2$ /NDF: 6475.0/4

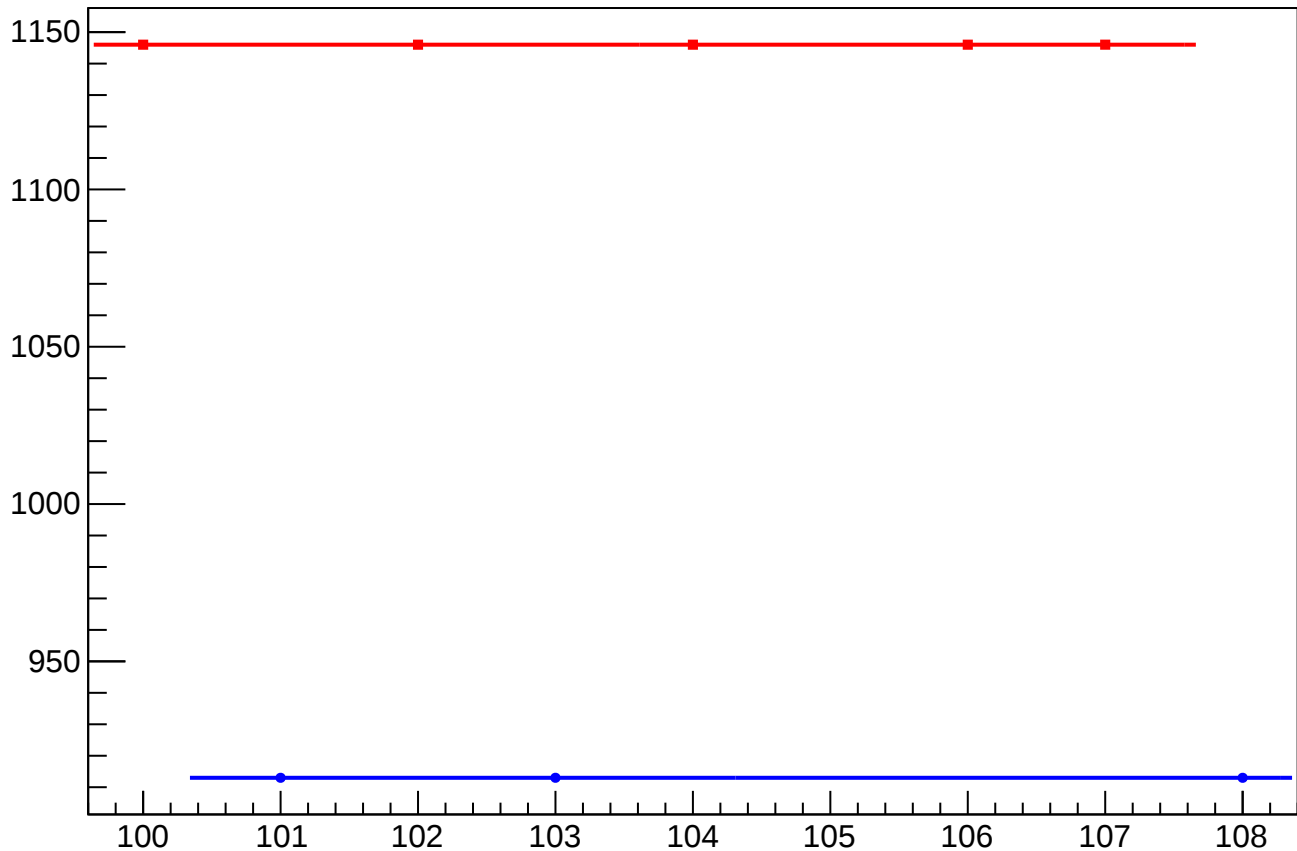
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.449 $\pm$ 0.000  $\chi^2$ /NDF: 7735031847133

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# epics\_RTPAPOSUCNTs\_mean vs Slug



Right In: 912.993 $\pm$ 0.000  $\chi^2$ /NDF: 1340867712629366635089625088.0/2

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

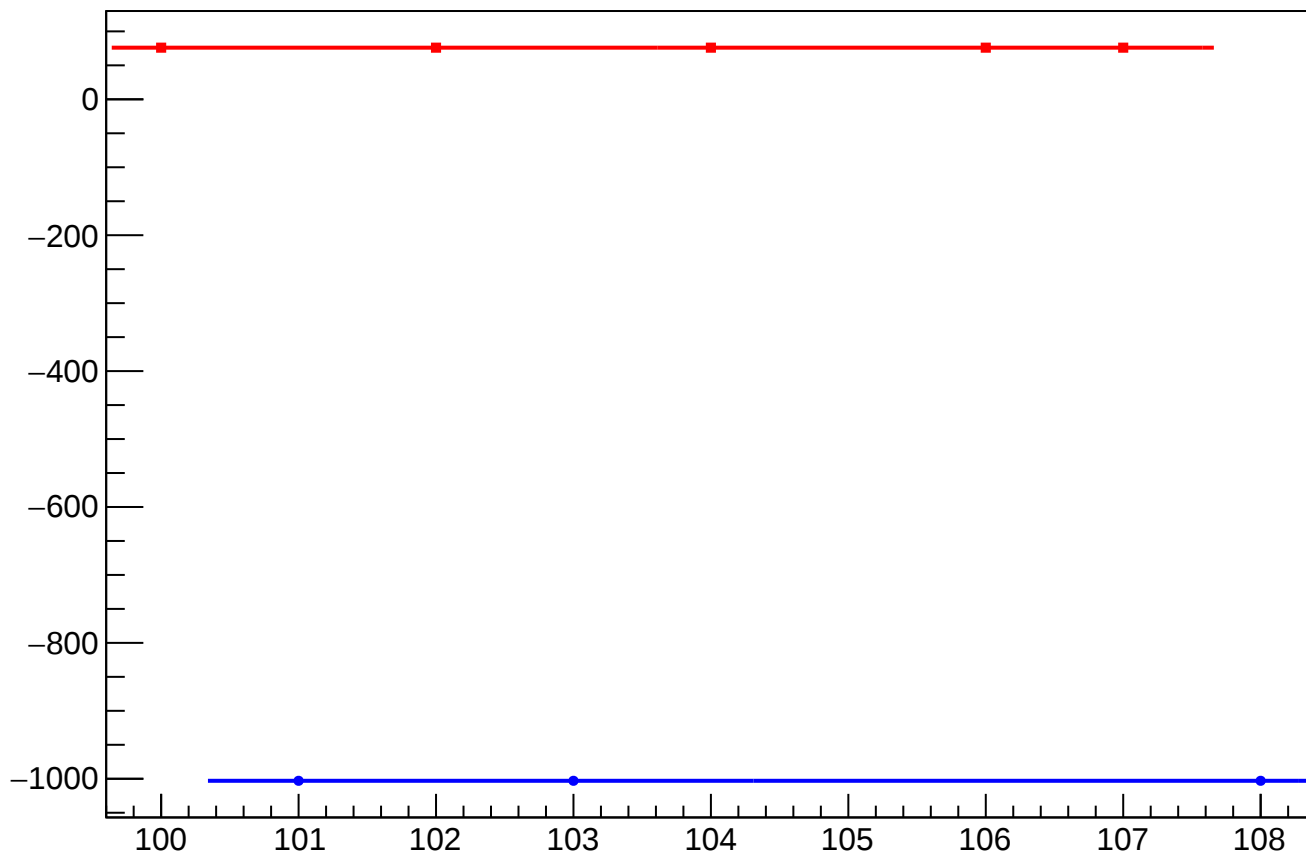
All: 1038.781 $\pm$ 0.000  $\chi^2$ /NDF: 45724887593

Right Out: 1146.010 $\pm$ 0.000  $\chi^2$ /NDF: 637545815858127892444610560.0/4

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# epics\_RTPAPOSVCNTs\_mean vs Slug



Right In: -1002.988+/-0.000  $\chi^2/\text{NDF}$ : 1050403628438888919234248704.0/2

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -420.520+/-0.000  $\chi^2/\text{NDF}$ : 98043107690

Right Out: 76.009+/-0.000  $\chi^2/\text{NDF}$ : 1749523746948962574139392.0/4

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0