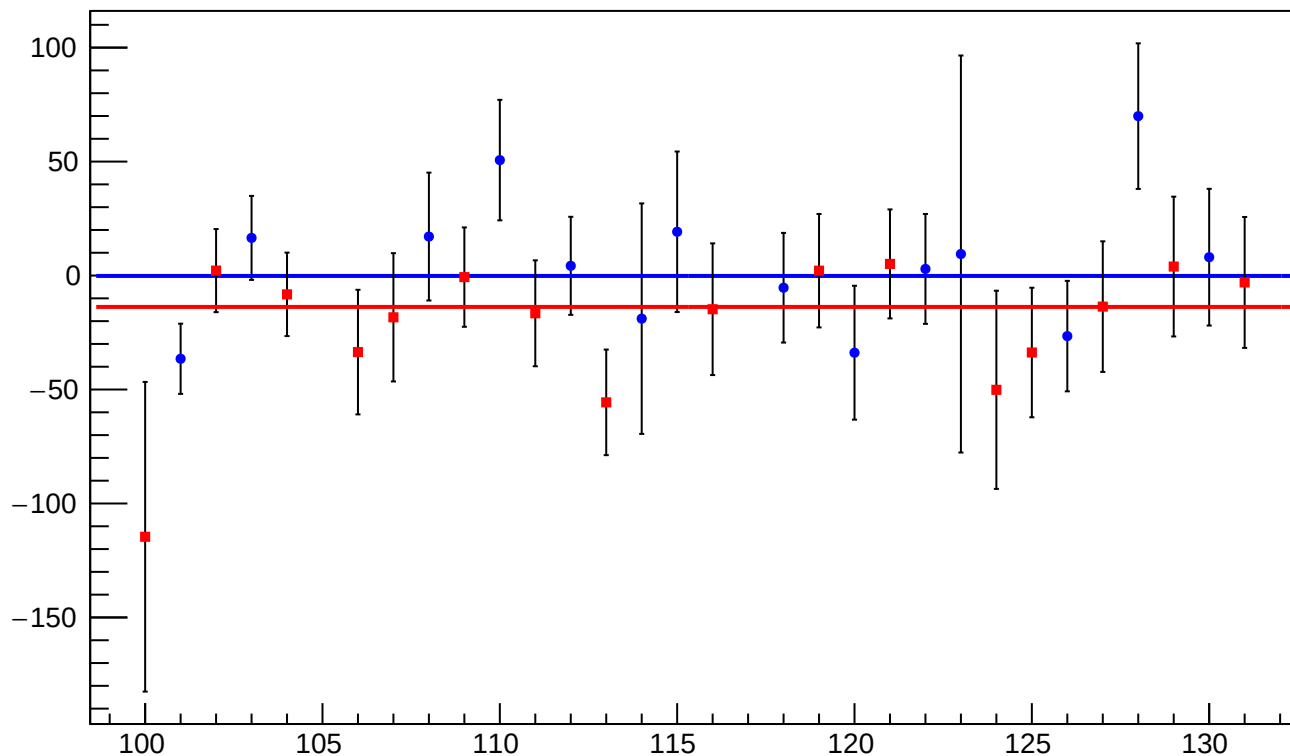


# diff\_bpm4aX\_mean vs Slug



Right In: -0.167 $\pm$ 6.780

$\chi^2$ /NDF: 18.4/13

Left Out: 0.000 $\pm$ 0.000

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

Right Out: -13.760 $\pm$ 6.395

$\chi^2$ /NDF: 10.0/15

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

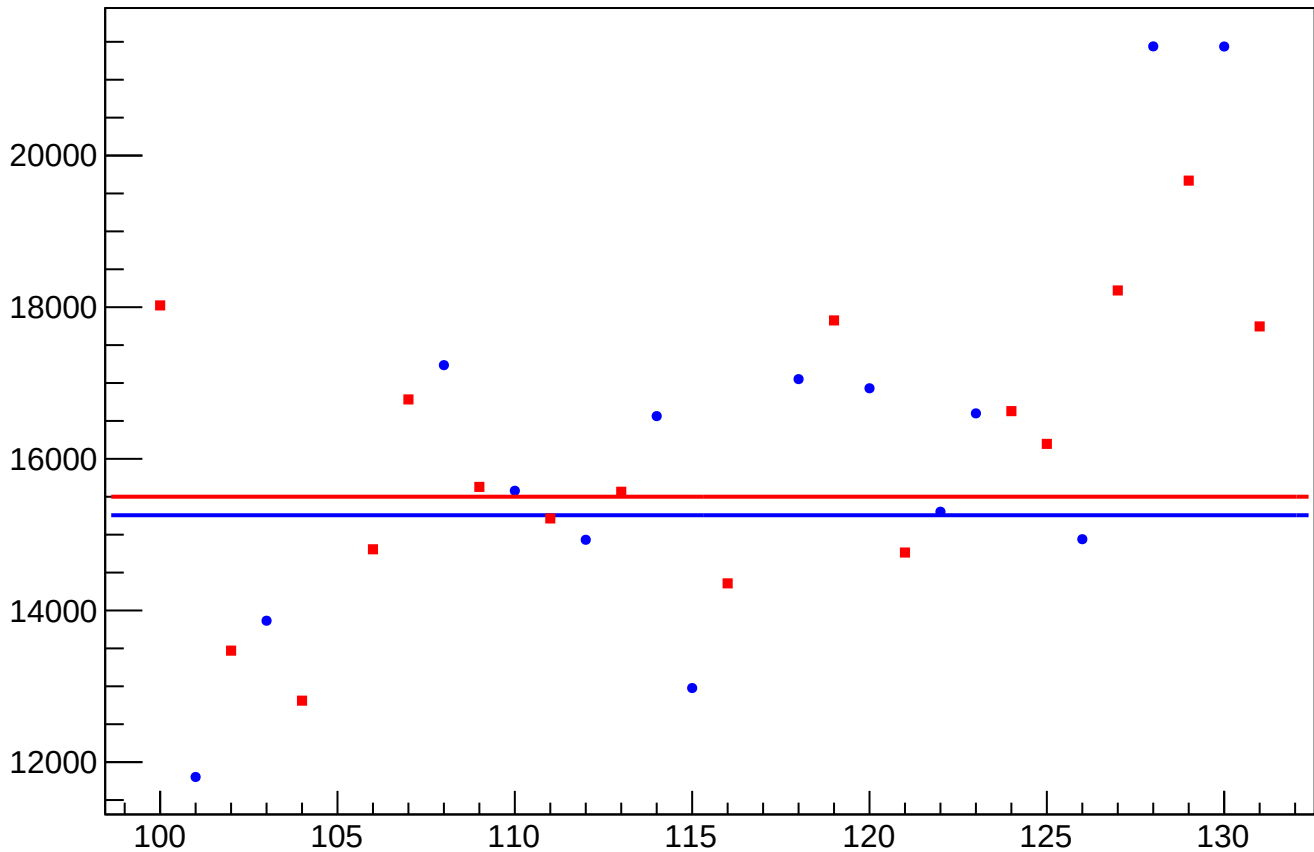
All: -7.360 $\pm$ 4.652

$\chi^2$ /NDF: 30.5/29

- sign 0.000 $\pm$ 0.000

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

# diff\_bpm4aX\_rms vs Slug



Right In: 15256.253+/-4.794  $\chi^2/\text{NDF}$ : 310704.3/13

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

Right Out: 15500.528+/-4.522  $\chi^2/\text{NDF}$ : 168830.9/15

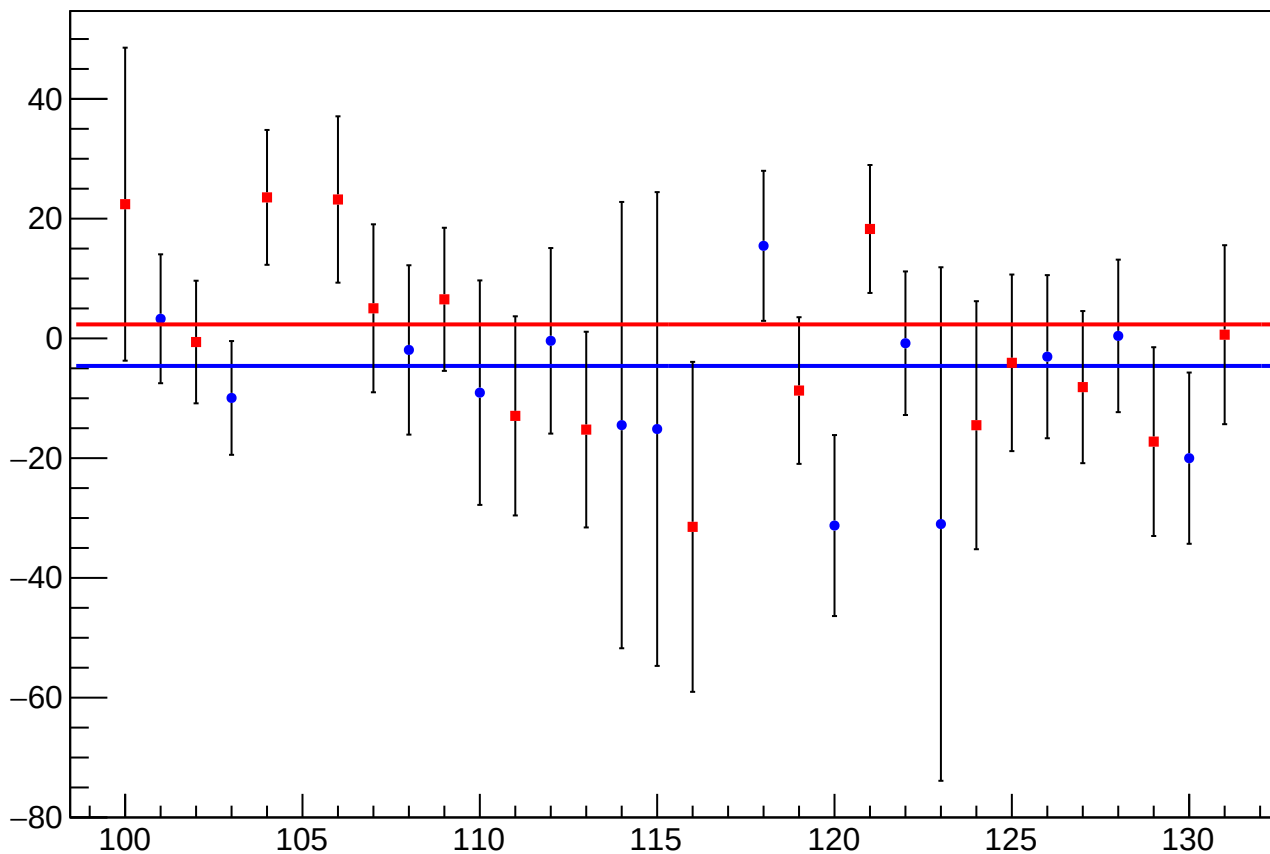
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 15385.521+/-3.289  $\chi^2/\text{NDF}$ : 480909.2/29

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

# diff\_bpm4aY\_mean vs Slug



Right In: -4.599+/-3.841  $\chi^2/\text{NDF}$ : 8.6/13

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

Right Out: 2.336+/-3.495  $\chi^2/\text{NDF}$ : 16.3/15

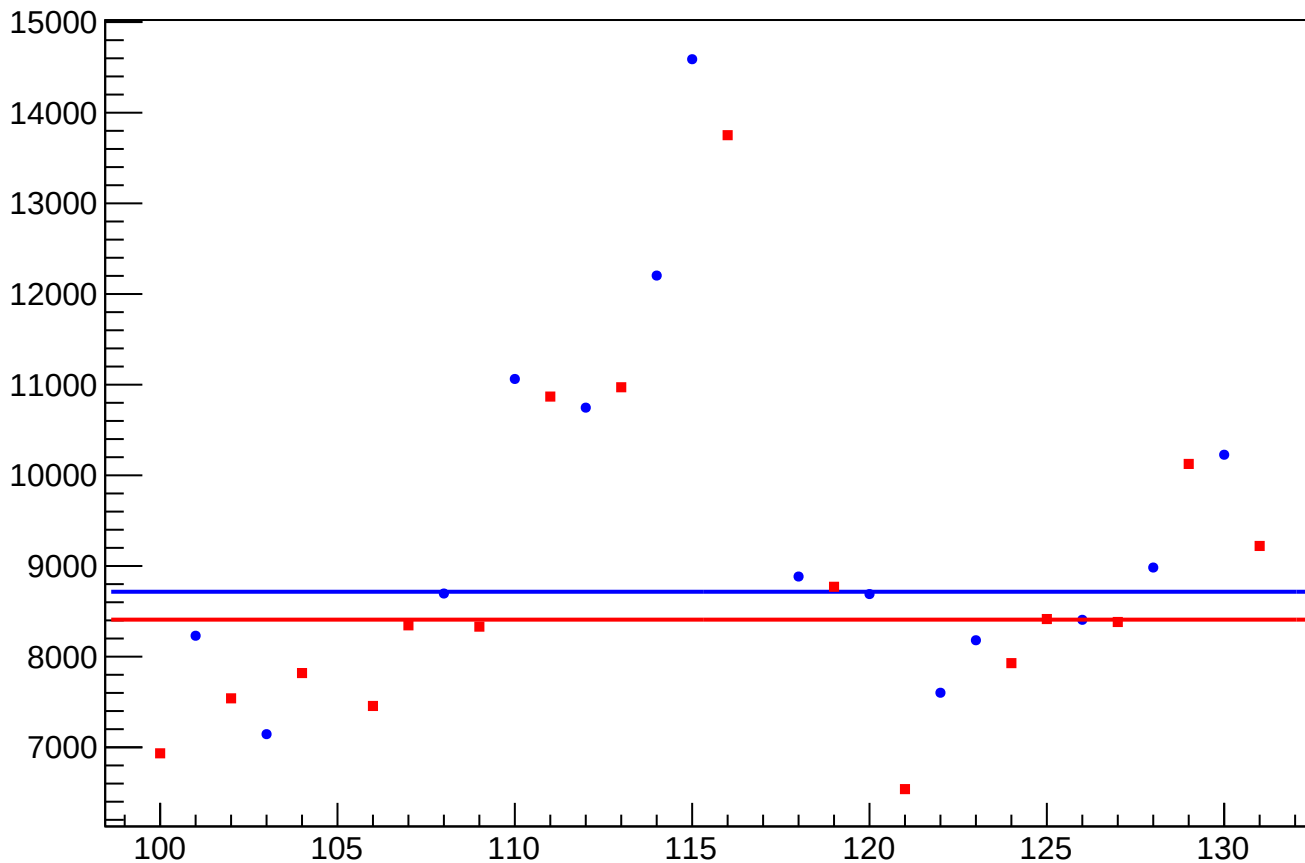
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.804+/-2.585  $\chi^2/\text{NDF}$ : 26.7/29

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

# diff\_bpm4aY\_rms vs Slug



Right In: 8715.891+/-2.716  $\chi^2/\text{NDF}$ : 228243.3/13

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

Right Out: 8408.252+/-2.471  $\chi^2/\text{NDF}$ : 297664.5/15

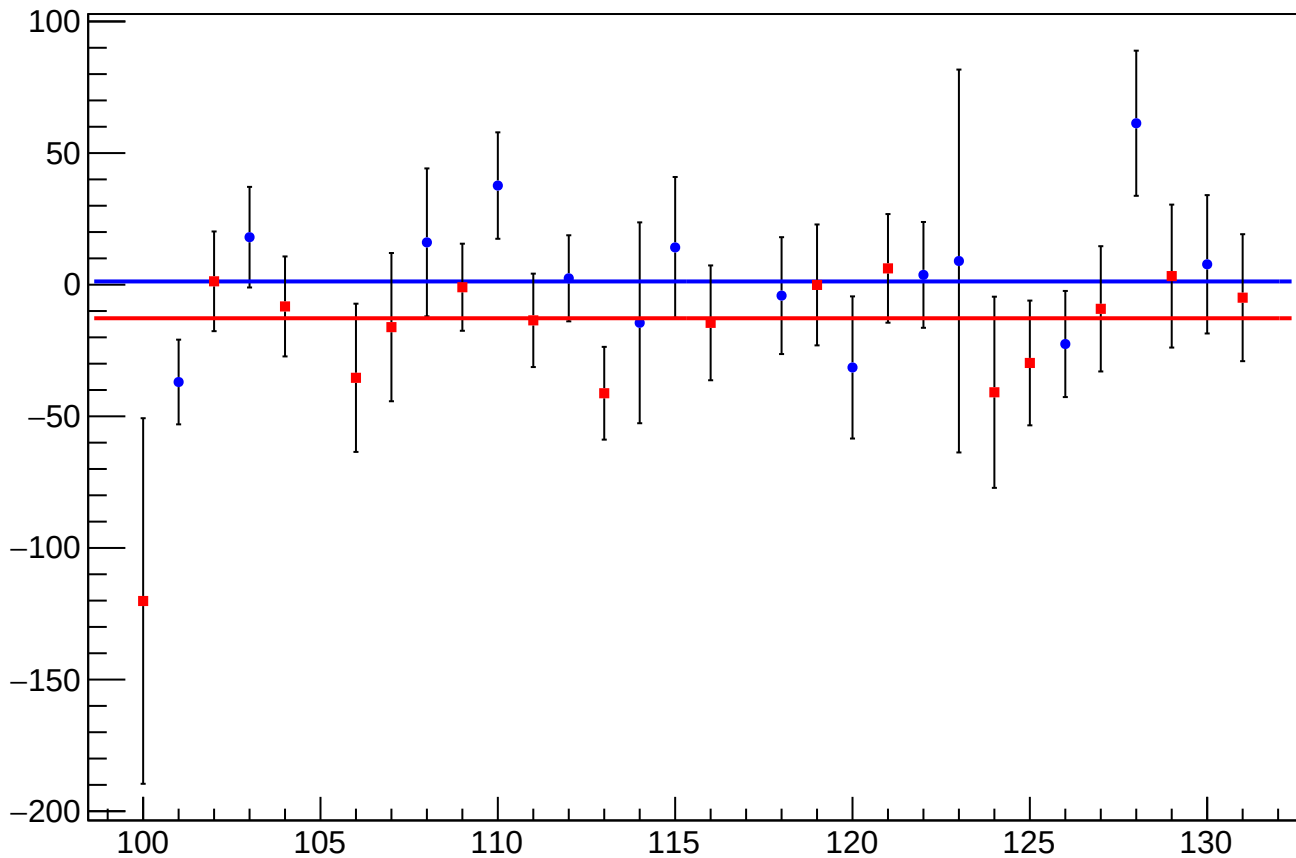
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 8547.564+/-1.828  $\chi^2/\text{NDF}$ : 532926.7/29

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

# diff\_bpm4eX\_mean vs Slug



Right In: 1.237 $\pm$ 6.037  $\chi^2$ /NDF: 18.1/13

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

Right Out: -12.744 $\pm$ 5.583  $\chi^2$ /NDF: 9.5/15

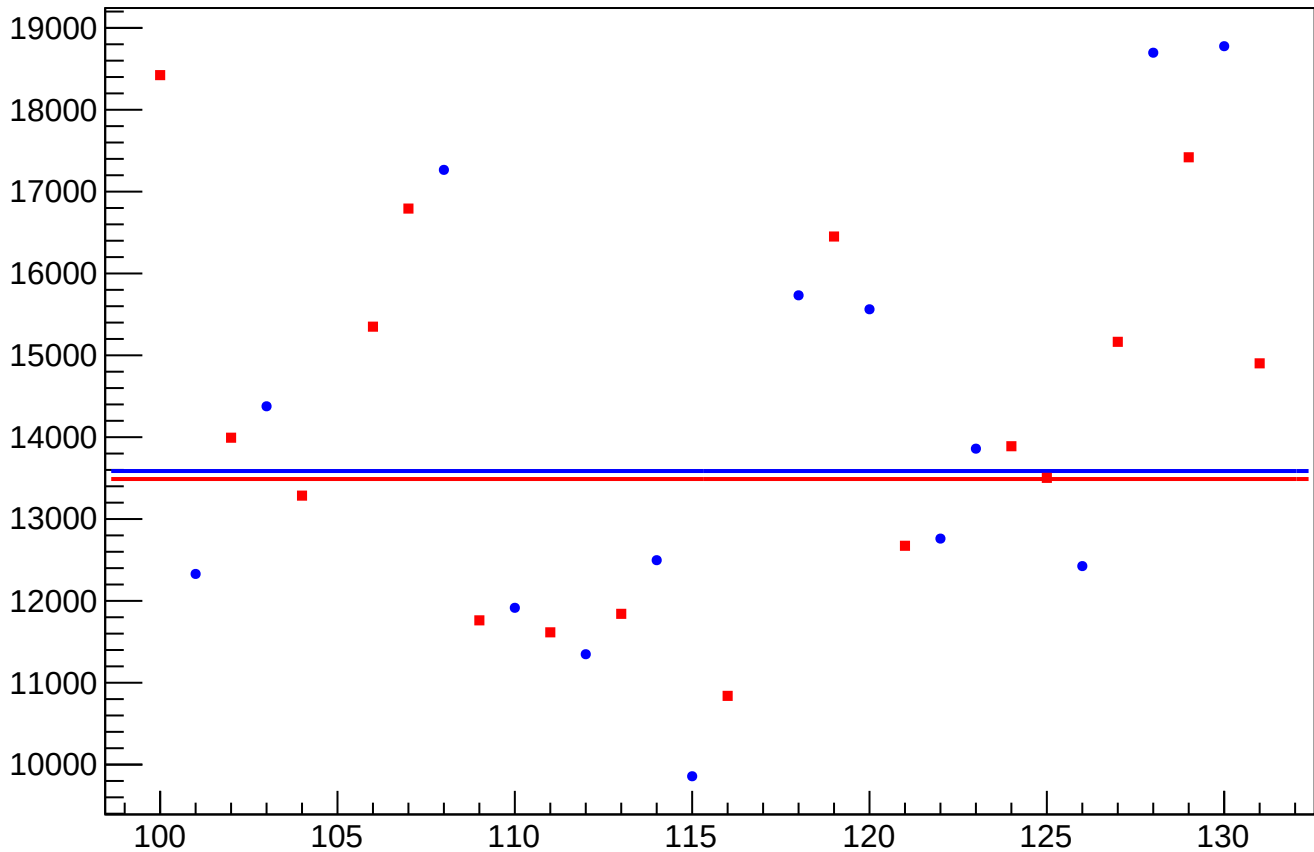
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -6.298 $\pm$ 4.099  $\chi^2$ /NDF: 30.5/29

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

# diff\_bpm4eX\_rms vs Slug



Right In: 13586.558 $\pm$ 4.269  $\chi^2$ /NDF: 327809.6/13

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

Right Out: 13488.770 $\pm$ 3.948  $\chi^2$ /NDF: 234472.9/15

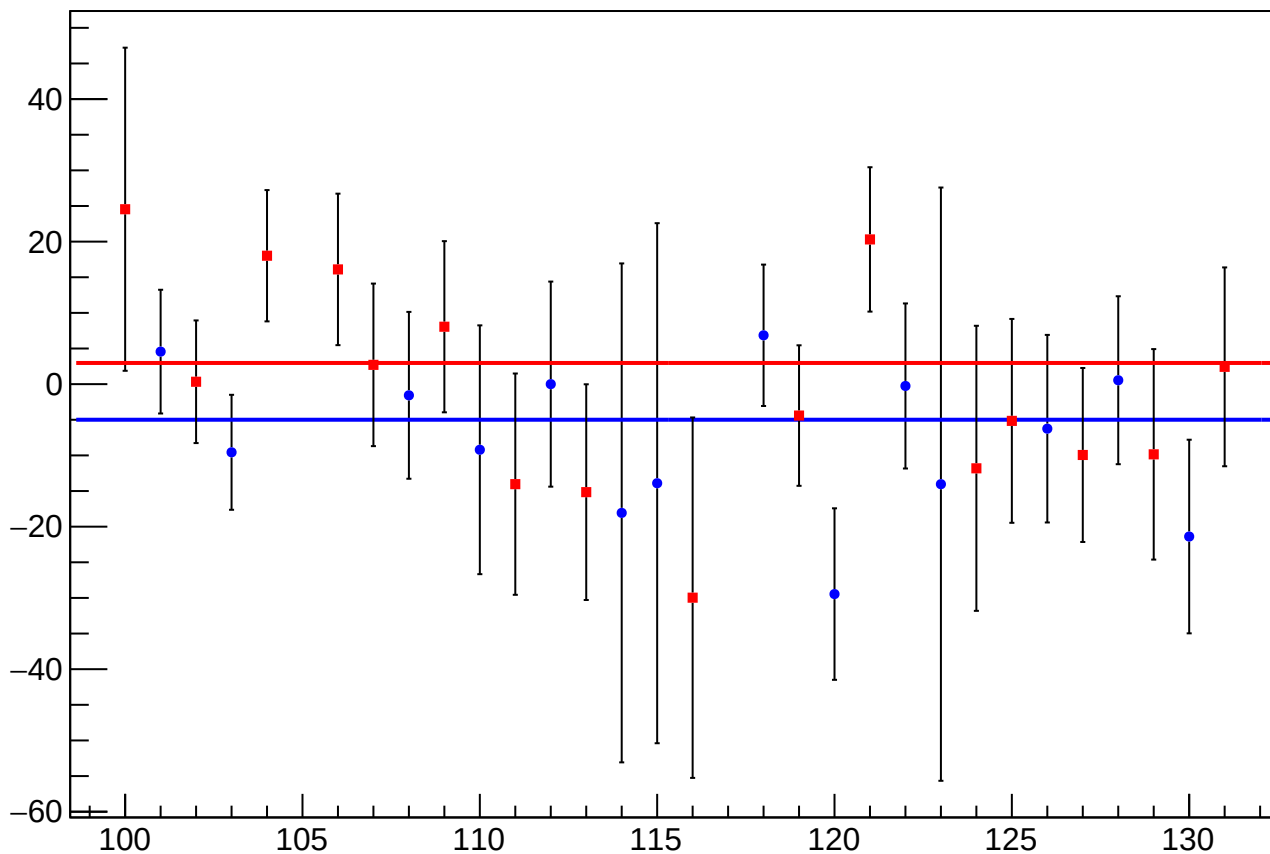
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 13533.850 $\pm$ 2.899  $\chi^2$ /NDF: 562565.3/29

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

# diff\_bpm4eY\_mean vs Slug



Right In:  $-4.995 \pm 3.350$   $\chi^2/\text{NDF}$ : 9.5/13

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

Right Out:  $2.972 \pm 3.092$   $\chi^2/\text{NDF}$ : 15.9/15

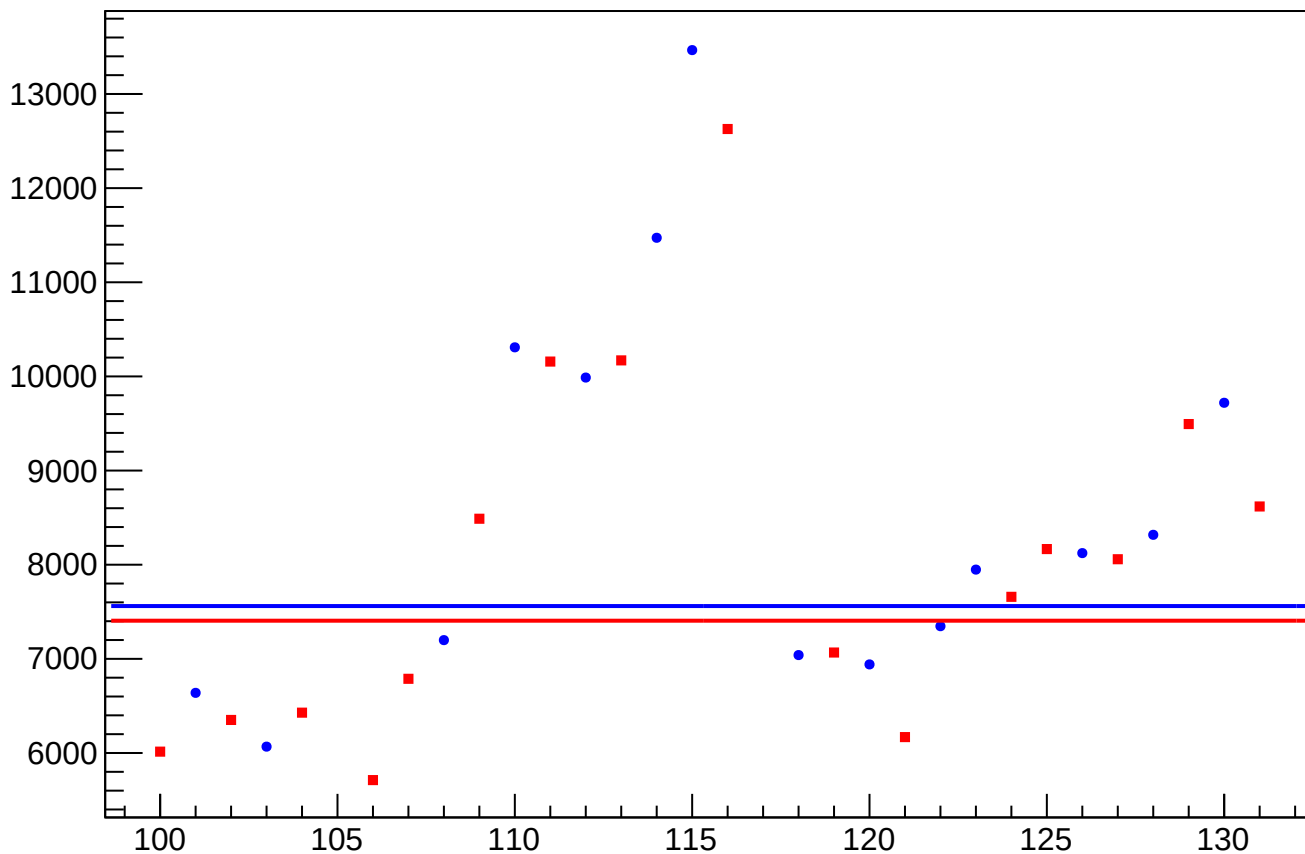
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.692 \pm 2.272$   $\chi^2/\text{NDF}$ : 28.4/29

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

# diff\_bpm4eY\_rms vs Slug



Right In:  $7560.842 \pm 2.369$   $\chi^2/\text{NDF}: 350894.9/13$

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

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

Right Out:  $7405.268 \pm 2.186$   $\chi^2/\text{NDF}: 446755.3/15$

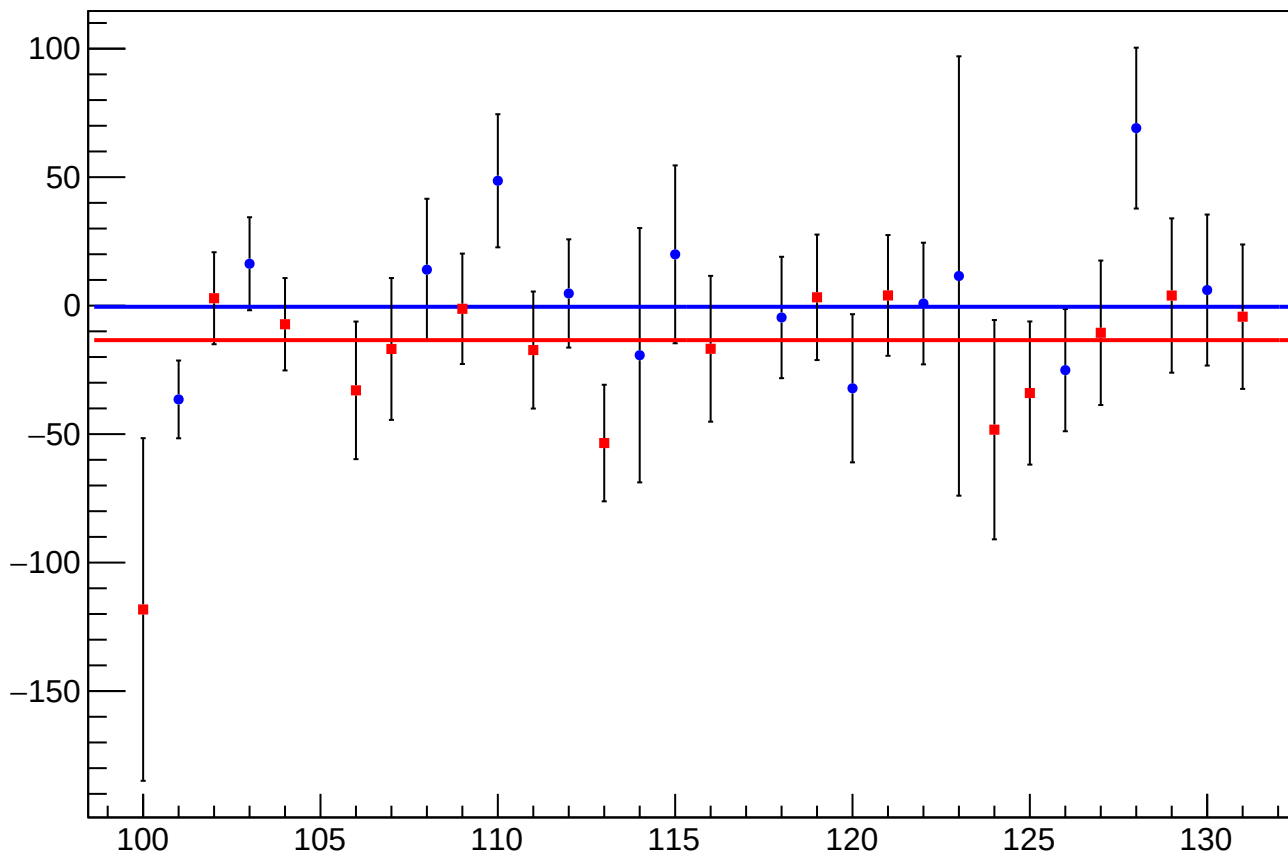
All:  $7476.819 \pm 1.607$   $\chi^2/\text{NDF}: 799979.5/29$

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

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



# diff\_bpm4acX\_mean vs Slug



Right In: -0.448 $\pm$ 6.654  $\chi^2/\text{NDF}$ : 18.3/13

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

Right Out: -13.432 $\pm$ 6.275  $\chi^2/\text{NDF}$ : 10.1/15

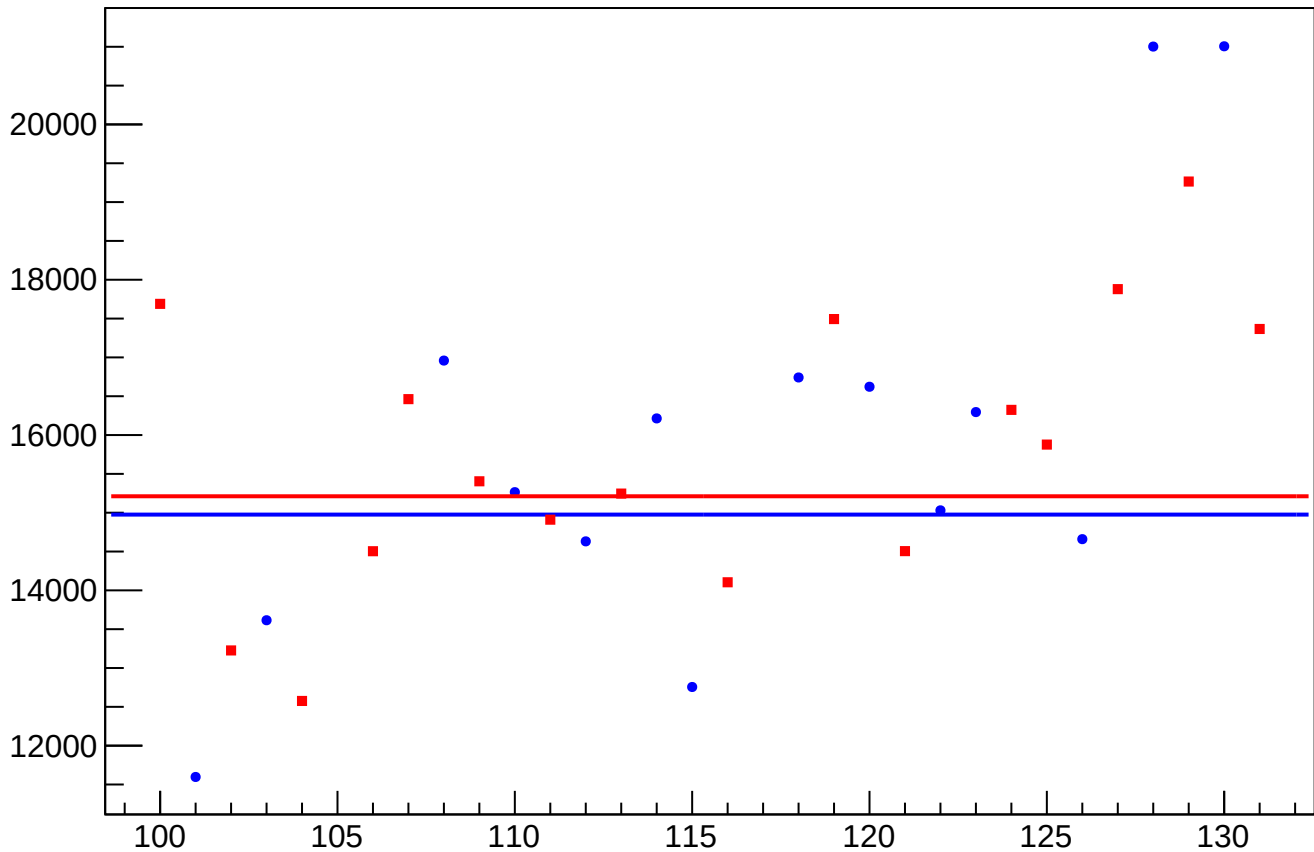
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -7.321 $\pm$ 4.565  $\chi^2/\text{NDF}$ : 30.4/29

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

# diff\_bpm4acX\_rms vs Slug



Right In: 14975.629+/-4.705  $\chi^2/\text{NDF}$ : 308541.2/13

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

Right Out: 15211.566+/-4.437  $\chi^2/\text{NDF}$ : 167406.5/15

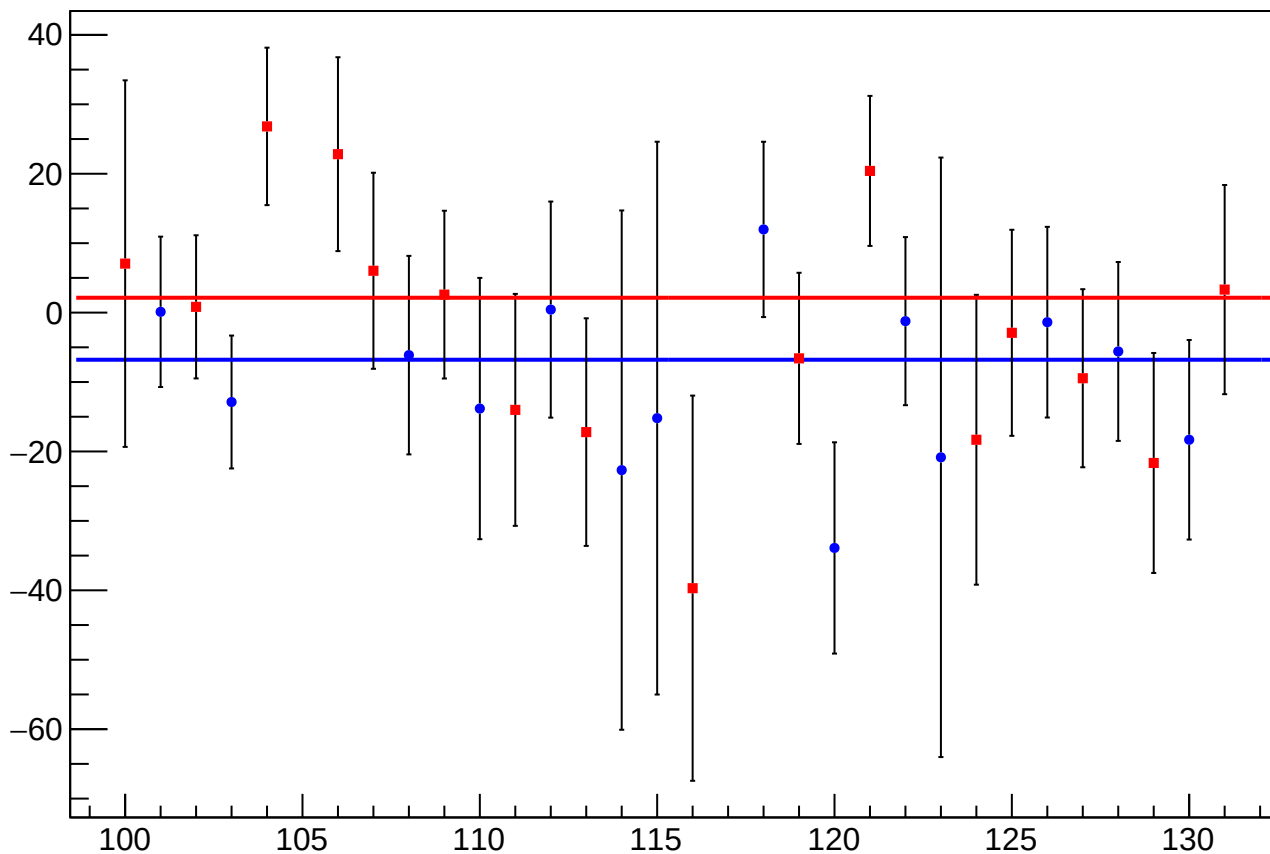
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 15100.512+/-3.228  $\chi^2/\text{NDF}$ : 477278.5/29

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

# diff\_bpm4acY\_mean vs Slug



Right In: -6.789+/-3.870  $\chi^2/\text{NDF}$ : 7.9/13

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

Right Out: 2.141+/-3.521  $\chi^2/\text{NDF}$ : 19.2/15

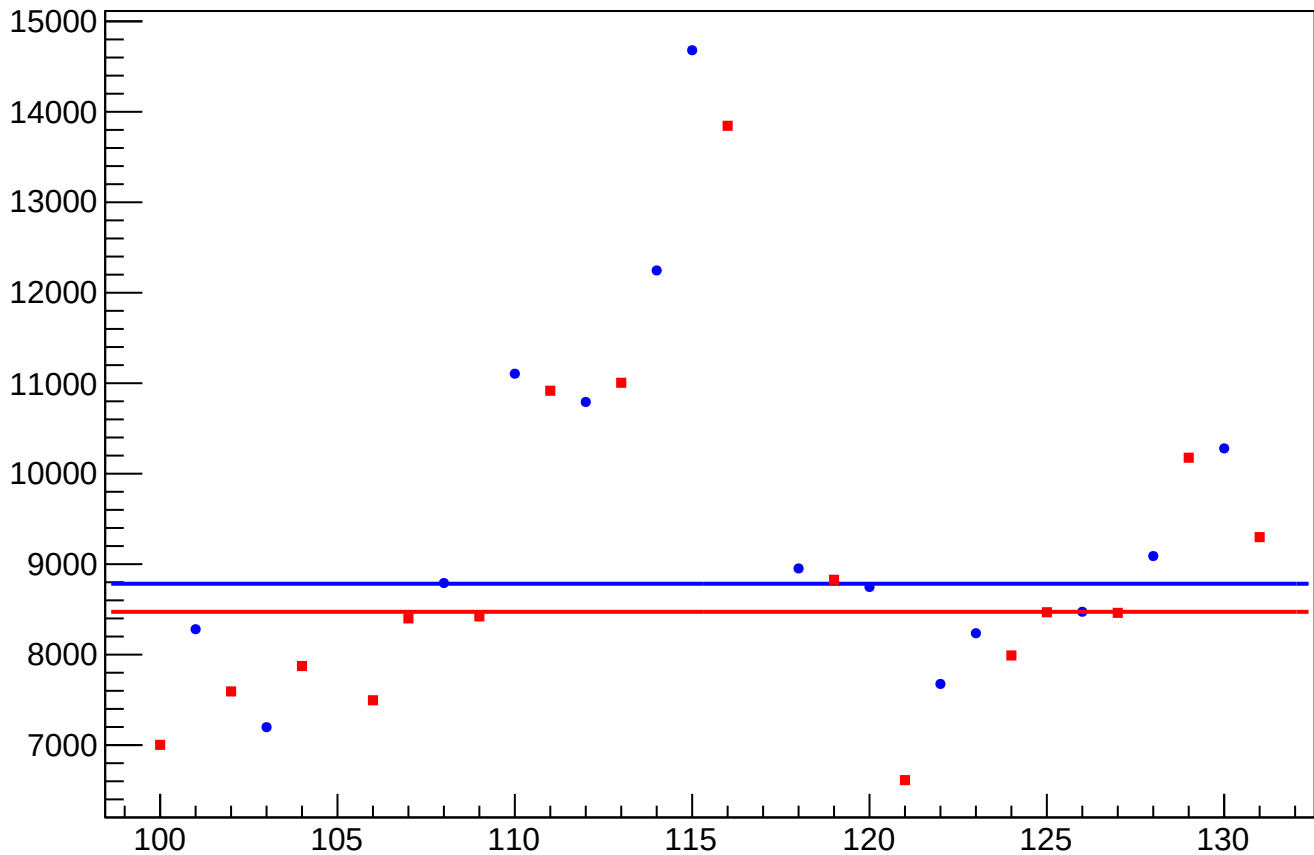
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -1.902+/-2.604  $\chi^2/\text{NDF}$ : 30.0/29

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

# diff\_bpm4acY\_rms vs Slug



Right In: 8783.527 $\pm$ 2.737  $\chi^2$ /NDF: 225220.0/13

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

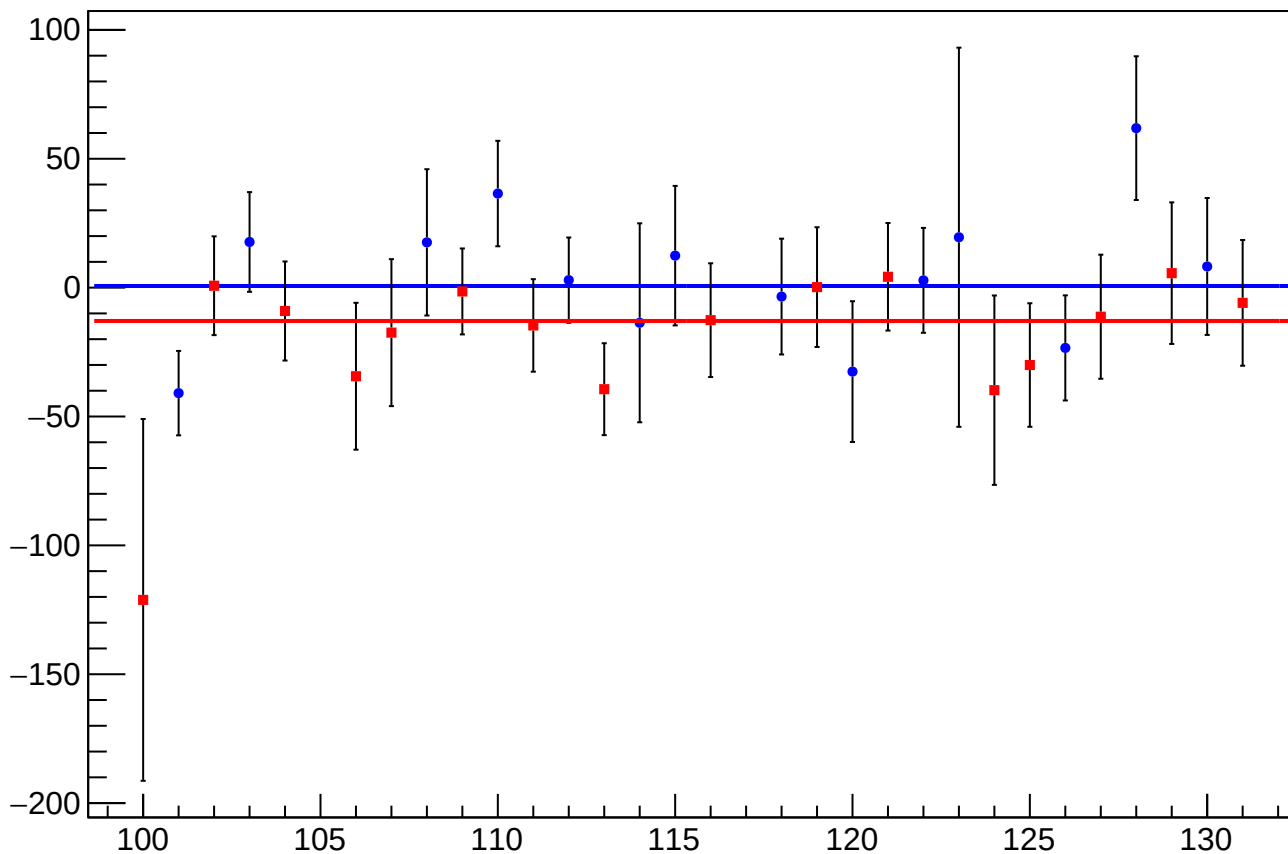
Right Out: 8473.304 $\pm$ 2.489  $\chi^2$ /NDF: 292907.5/15

All: 8613.769 $\pm$ 1.842  $\chi^2$ /NDF: 525158.6/29

- 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\_bpm4ecX\_mean vs Slug



Right In:  $0.641 \pm 6.113$   $\chi^2/\text{NDF}$ : 18.9/13

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

Right Out:  $-12.927 \pm 5.647$   $\chi^2/\text{NDF}$ : 8.8/15

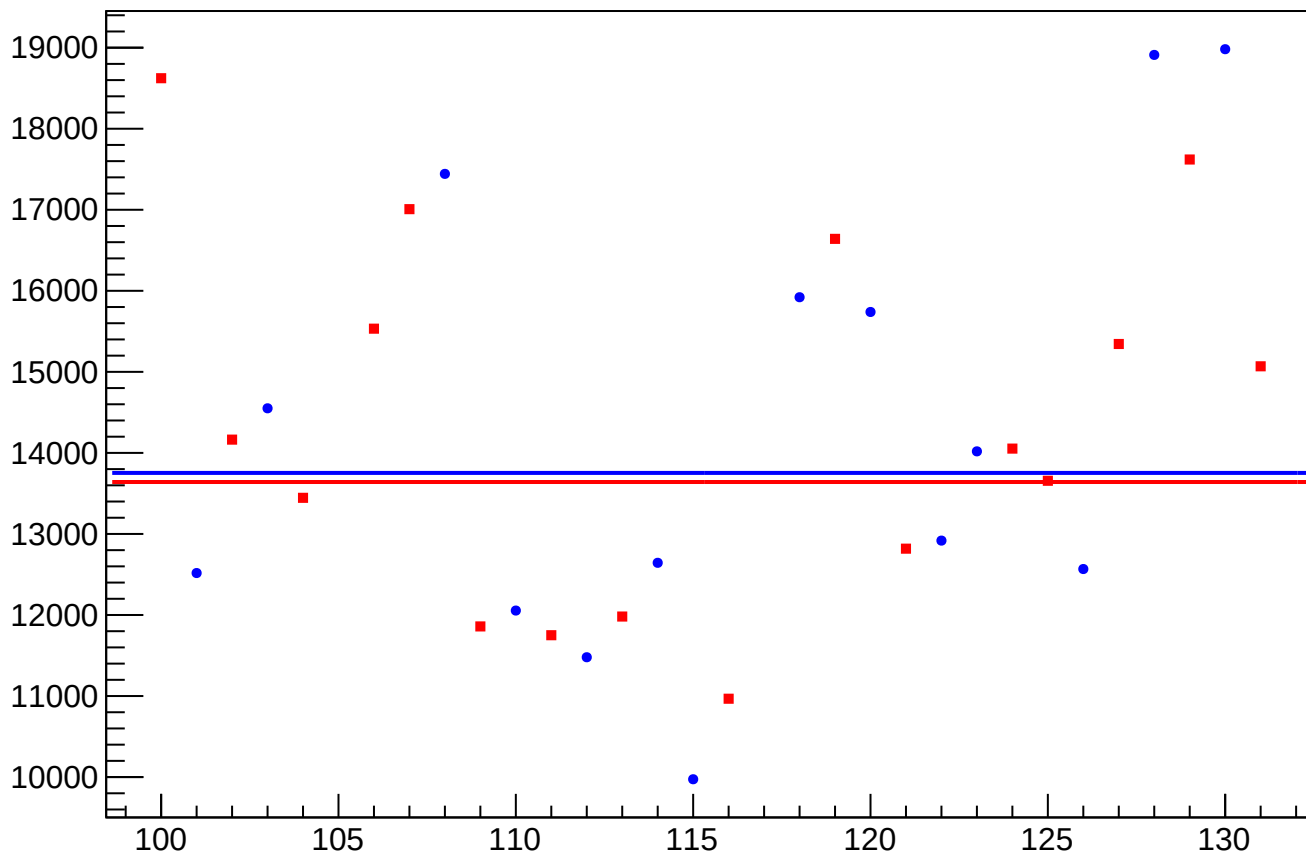
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-6.680 \pm 4.148$   $\chi^2/\text{NDF}$ : 30.3/29

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

# diff\_bpm4ecX\_rms vs Slug



Right In: 13753.089+/-4.322  $\chi^2/\text{NDF}$ : 326159.1/13

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

Right Out: 13640.885+/-3.993  $\chi^2/\text{NDF}$ : 235791.7/15

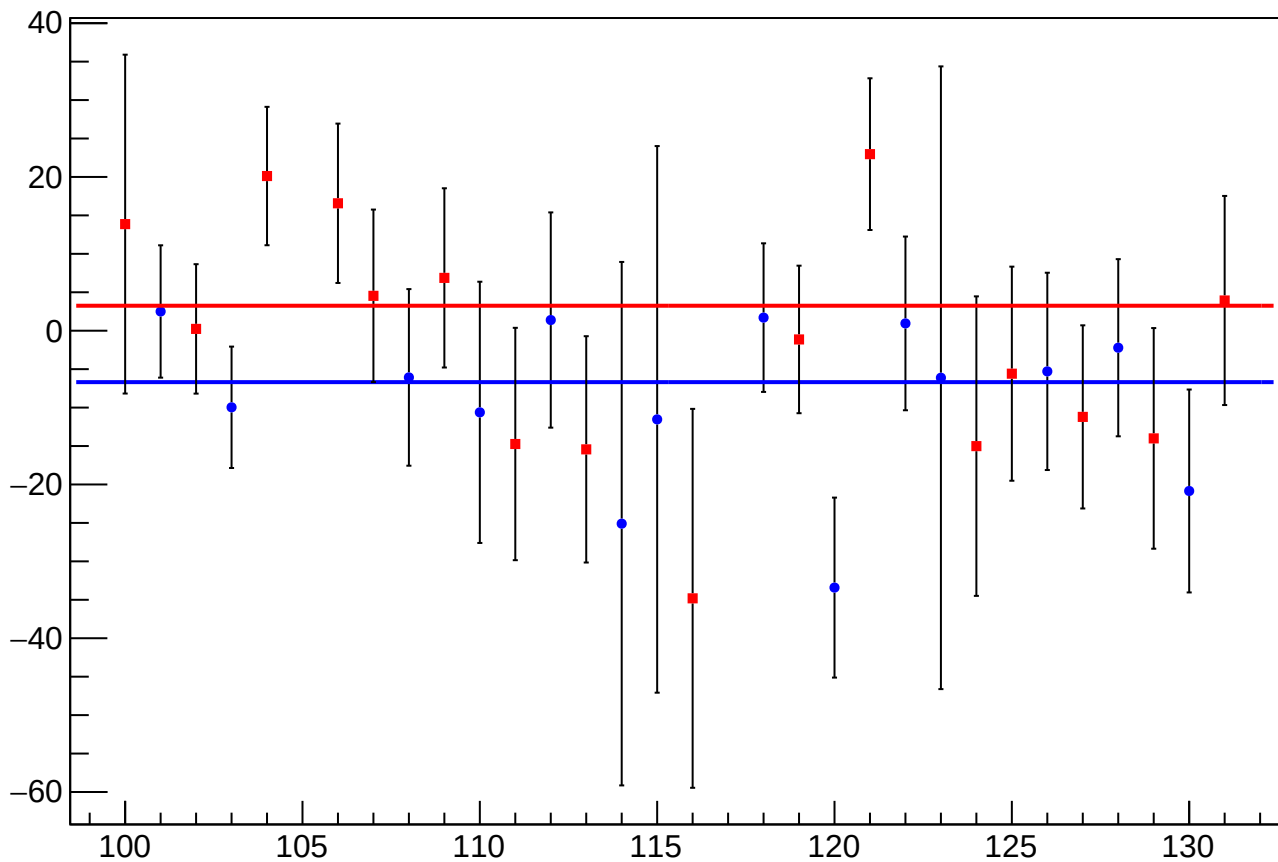
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 13692.546+/-2.933  $\chi^2/\text{NDF}$ : 562314.4/29

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

# diff\_bpm4ecY\_mean vs Slug



Right In:  $-6.689 \pm 3.277$   $\chi^2/\text{NDF}$ : 9.8/13

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

Right Out:  $3.249 \pm 3.015$   $\chi^2/\text{NDF}$ : 19.5/15

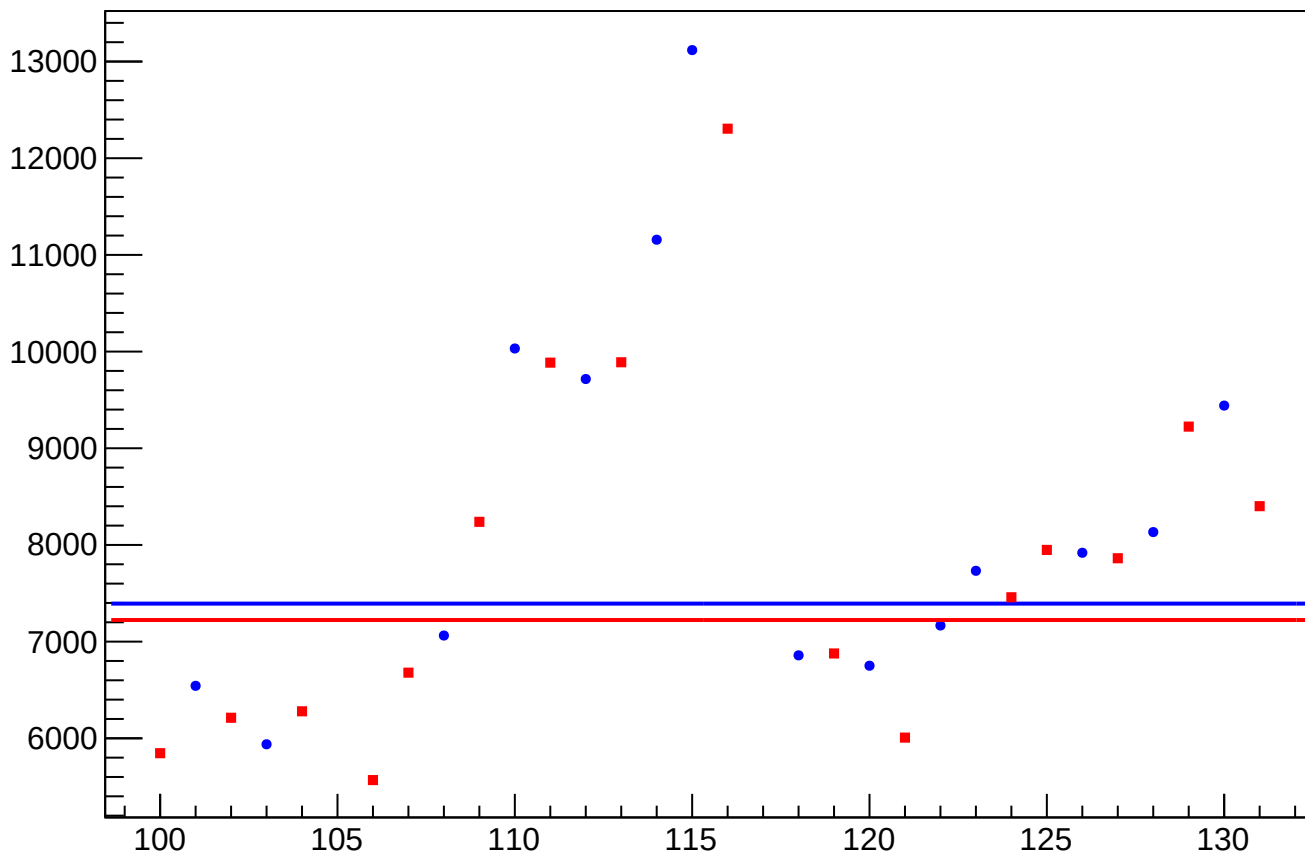
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-1.307 \pm 2.219$   $\chi^2/\text{NDF}$ : 34.2/29

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

# diff\_bpm4ecY\_rms vs Slug



Right In: 7393.181+/-2.317  $\chi^2/\text{NDF}$ : 341630.9/13

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: 7223.488+/-2.132  $\chi^2/\text{NDF}$ : 440655.4/15

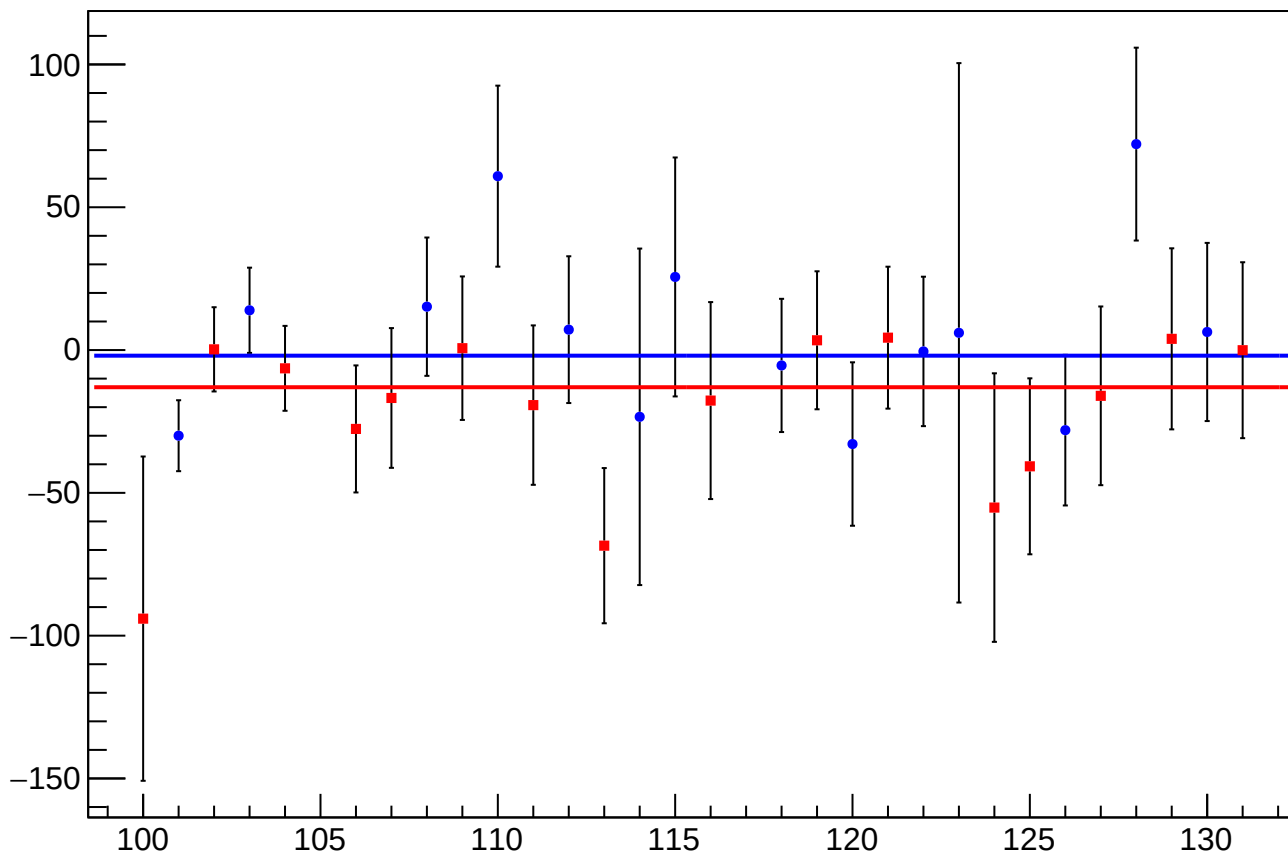
All: 7301.289+/-1.569  $\chi^2/\text{NDF}$ : 785191.1/29

- 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\_bpm1X\_mean vs Slug



Right In:  $-1.969 \pm 6.452$   $\chi^2/\text{NDF}$ : 18.4/13

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

Right Out:  $-13.015 \pm 6.190$   $\chi^2/\text{NDF}$ : 11.1/15

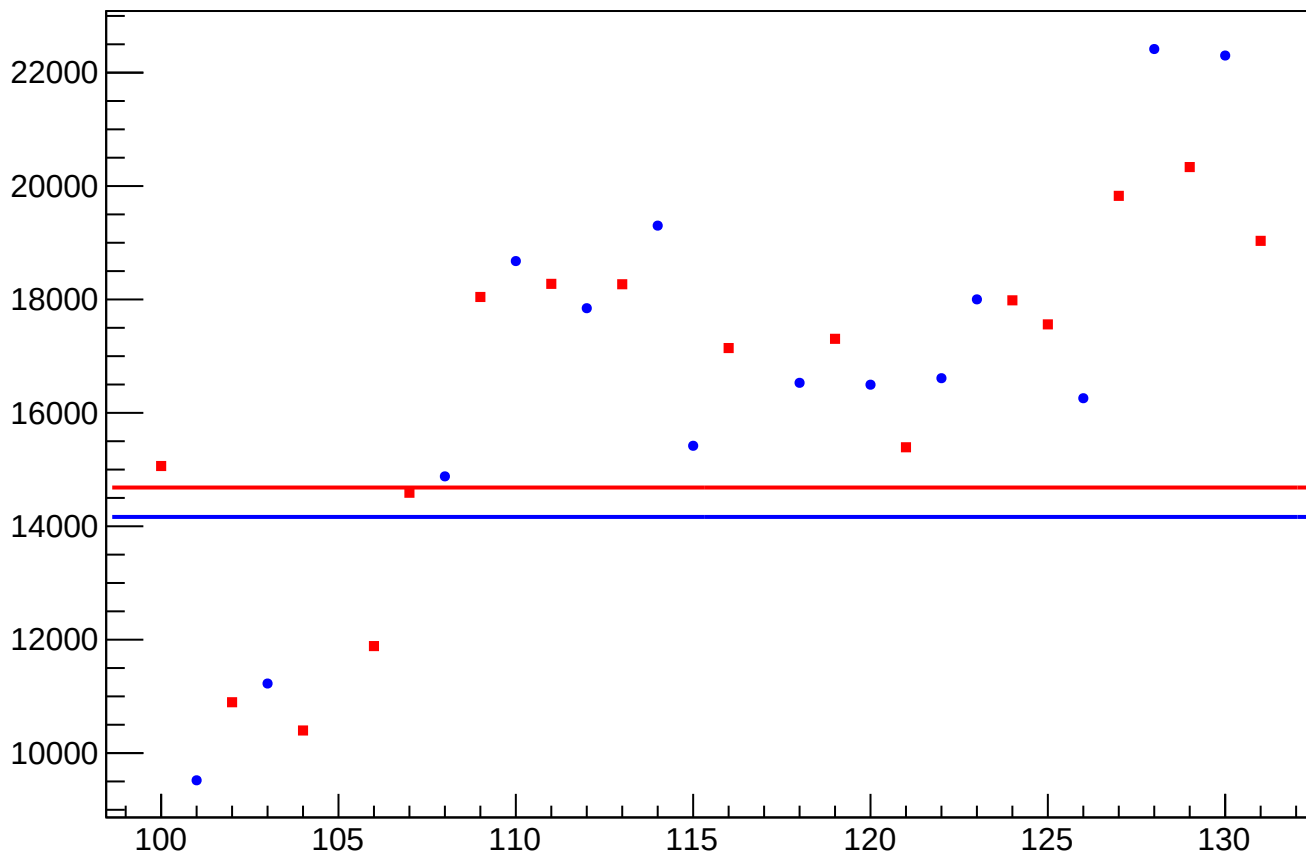
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-7.721 \pm 4.467$   $\chi^2/\text{NDF}$ : 31.0/29

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

# diff\_bpm1X\_rms vs Slug



Right In: 14164.770+/-4.562  $\chi^2/\text{NDF}$ : 780357.4/13

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

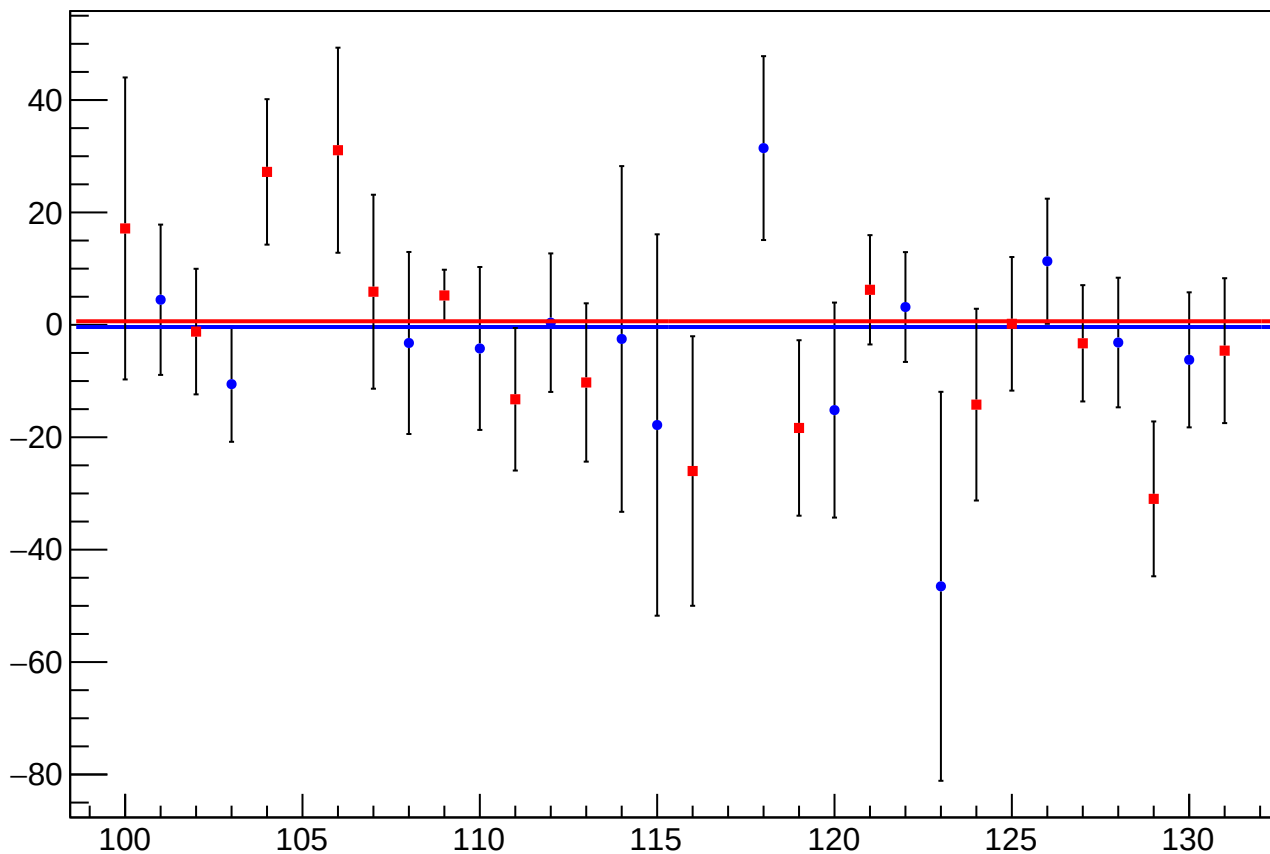
Right Out: 14683.493+/-4.377  $\chi^2/\text{NDF}$ : 653708.9/15

All: 14434.872+/-3.158  $\chi^2/\text{NDF}$ : 1440798.4/29

- 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\_bpm1Y\_mean vs Slug



Right In:  $-0.386 \pm 3.714$   $\chi^2/\text{NDF}$ : 9.2/13

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

Right Out:  $0.637 \pm 2.792$   $\chi^2/\text{NDF}$ : 19.7/15

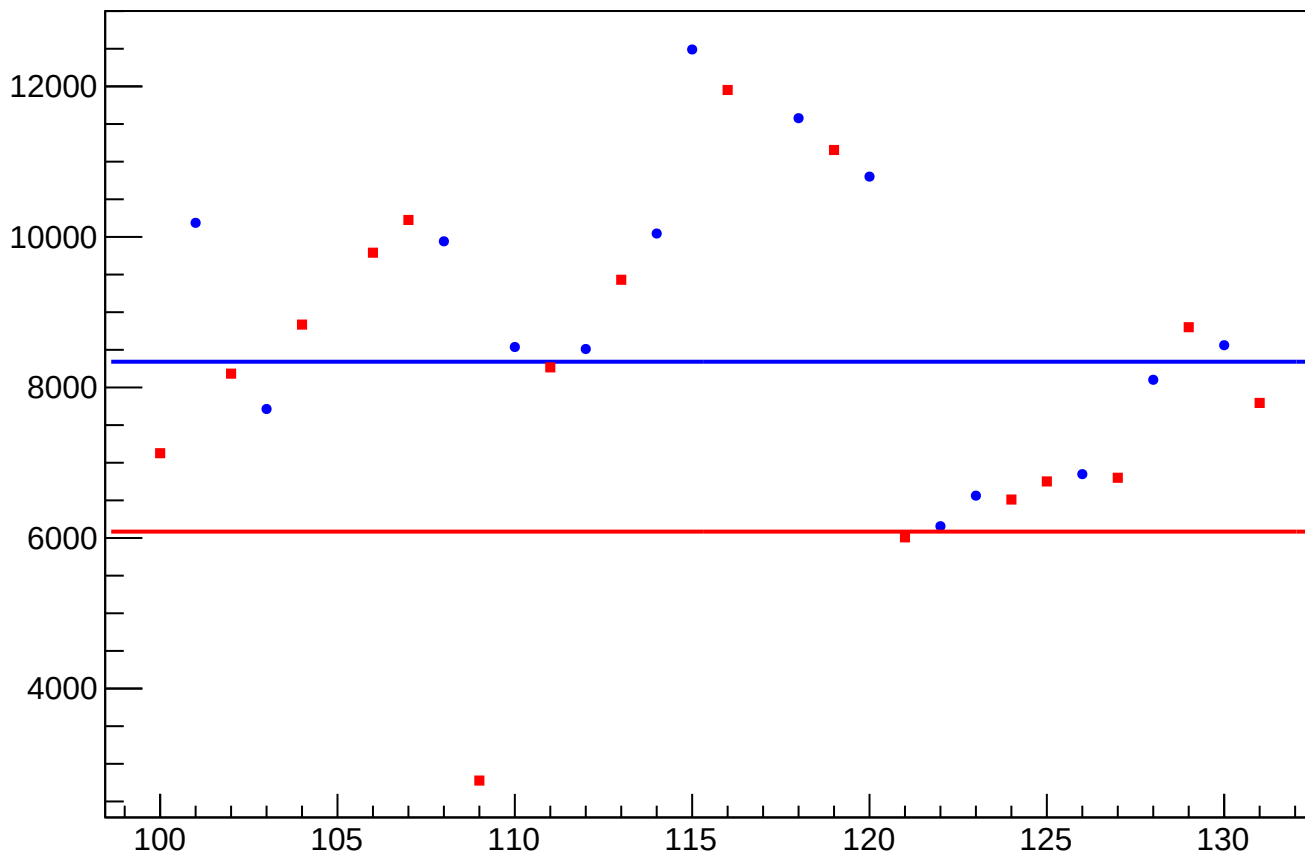
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $0.268 \pm 2.232$   $\chi^2/\text{NDF}$ : 28.9/29

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

# diff\_bpm1Y\_rms vs Slug



Right In: 8342.027 $\pm$ 2.626  $\chi^2$ /NDF: 356089.9/13

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

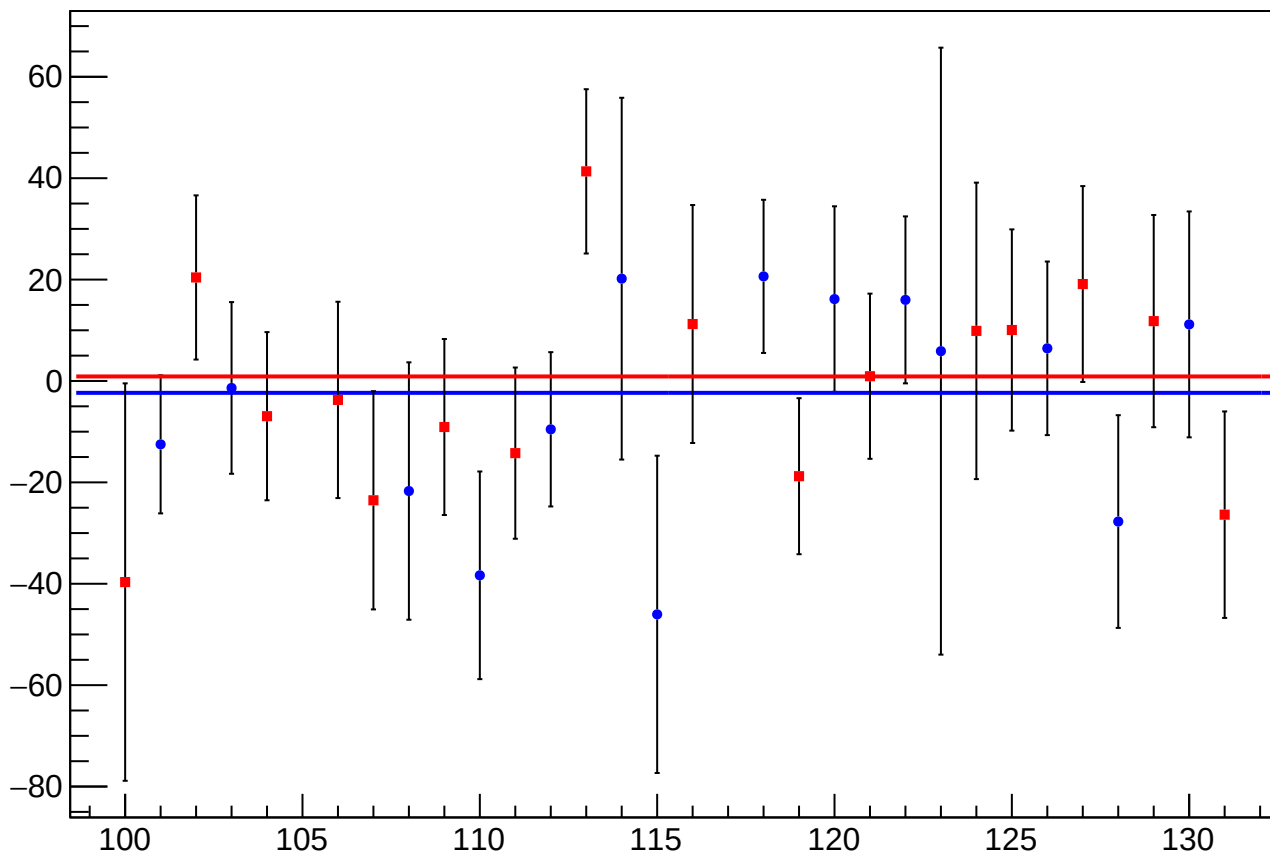
Right Out: 6084.951 $\pm$ 1.974  $\chi^2$ /NDF: 2038562.2/15

All: 6899.847 $\pm$ 1.578  $\chi^2$ /NDF: 2866534.0/29

- 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\_bpm11X\_mean vs Slug



Right In: -2.339+/-5.132  $\chi^2/\text{NDF}$ : 13.5/13

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

Right Out: 0.895+/-4.743  $\chi^2/\text{NDF}$ : 16.6/15

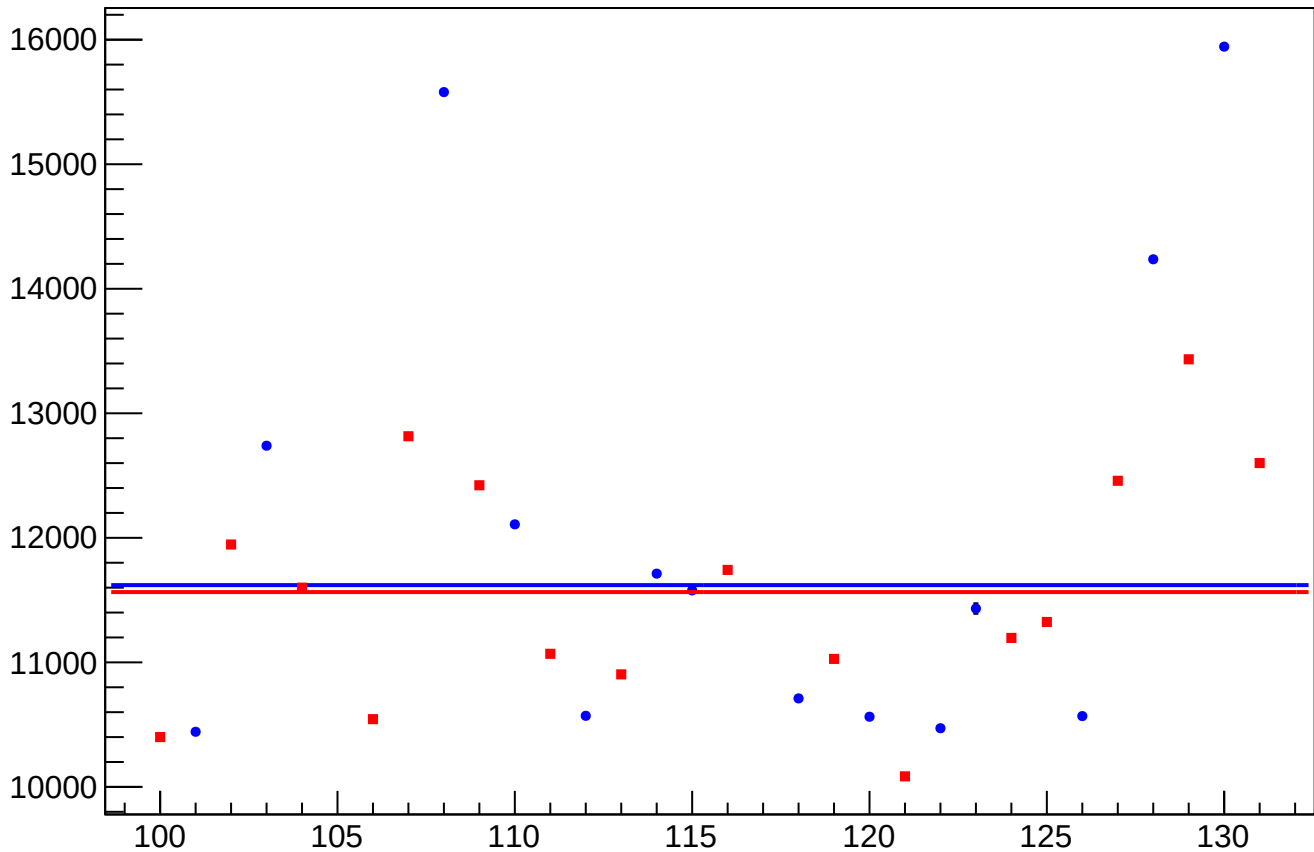
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.595+/-3.483  $\chi^2/\text{NDF}$ : 30.3/29

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

# diff\_bpm11X\_rms vs Slug



Right In: 11620.245 $\pm$ 3.629  $\chi^2$ /NDF: 220667.2/13

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

Right Out: 11564.395 $\pm$ 3.354  $\chi^2$ /NDF: 70197.3/15

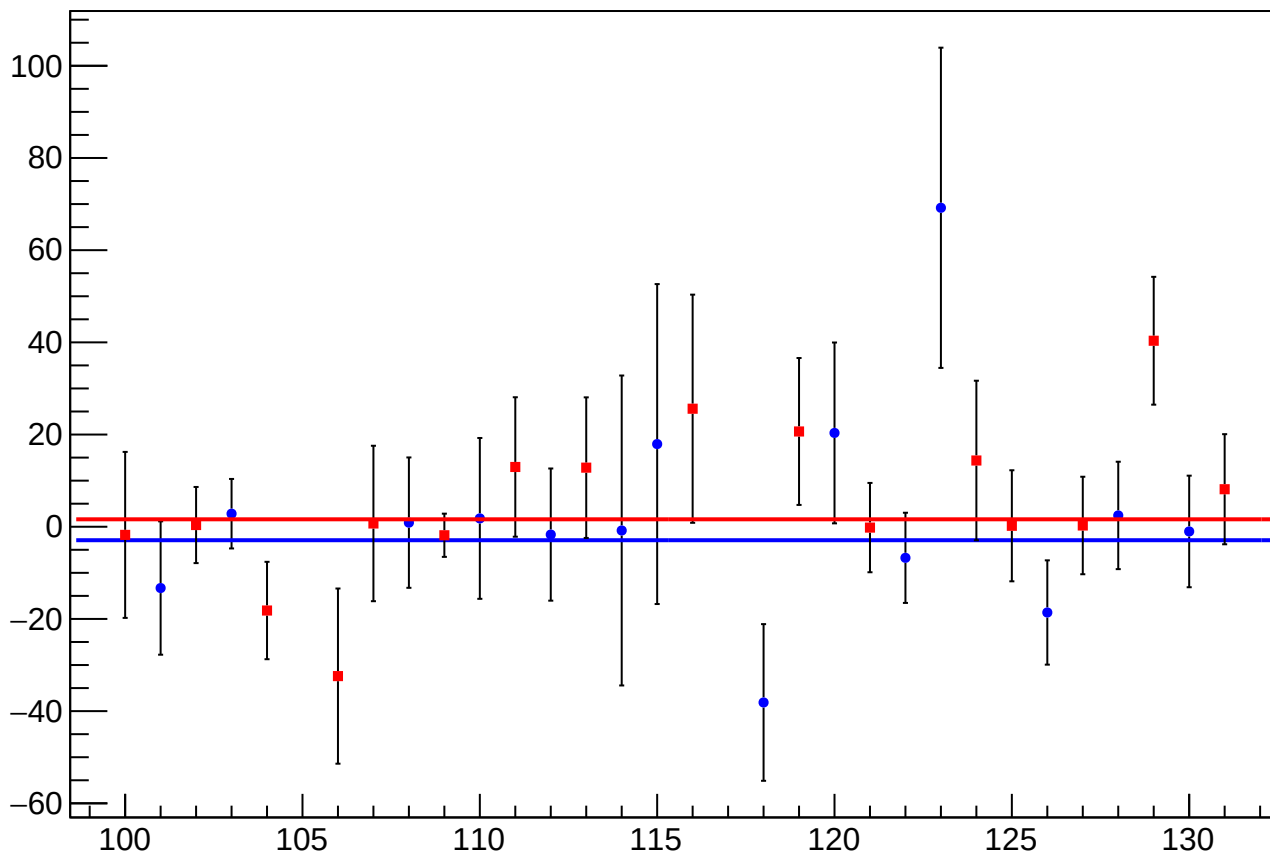
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 11590.125 $\pm$ 2.463  $\chi^2$ /NDF: 290992.3/29

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

# diff\_bpm11Y\_mean vs Slug



Right In: -2.923+/-3.613  $\chi^2/\text{NDF}$ : 13.9/13

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

Right Out: 1.614+/-2.724  $\chi^2/\text{NDF}$ : 19.5/15

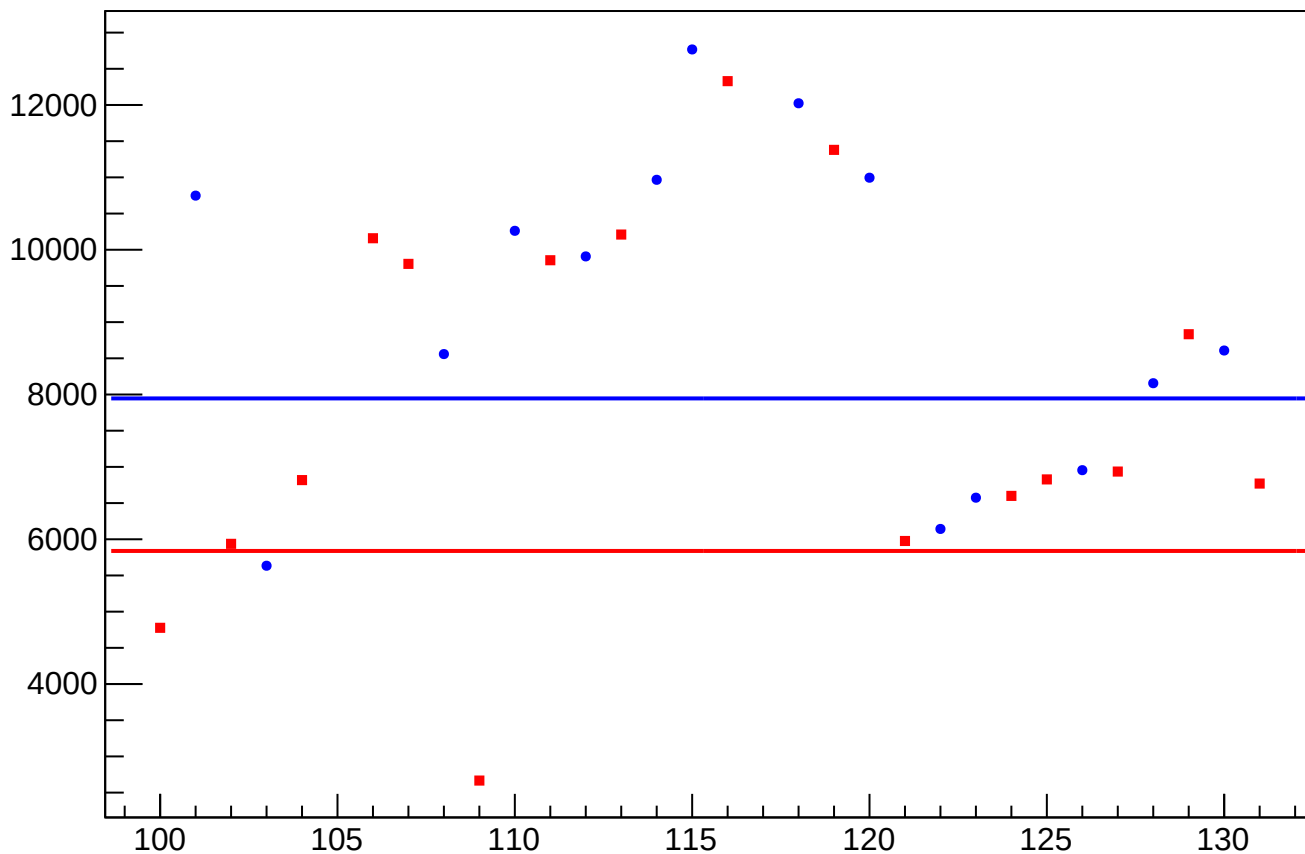
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.030+/-2.175  $\chi^2/\text{NDF}$ : 34.4/29

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

# diff\_bpm11Y\_rms vs Slug



Right In: 7945.995 $\pm$ 2.555  $\chi^2$ /NDF: 650778.4/13

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: 5838.648 $\pm$ 1.926  $\chi^2$ /NDF: 1983728.0/15

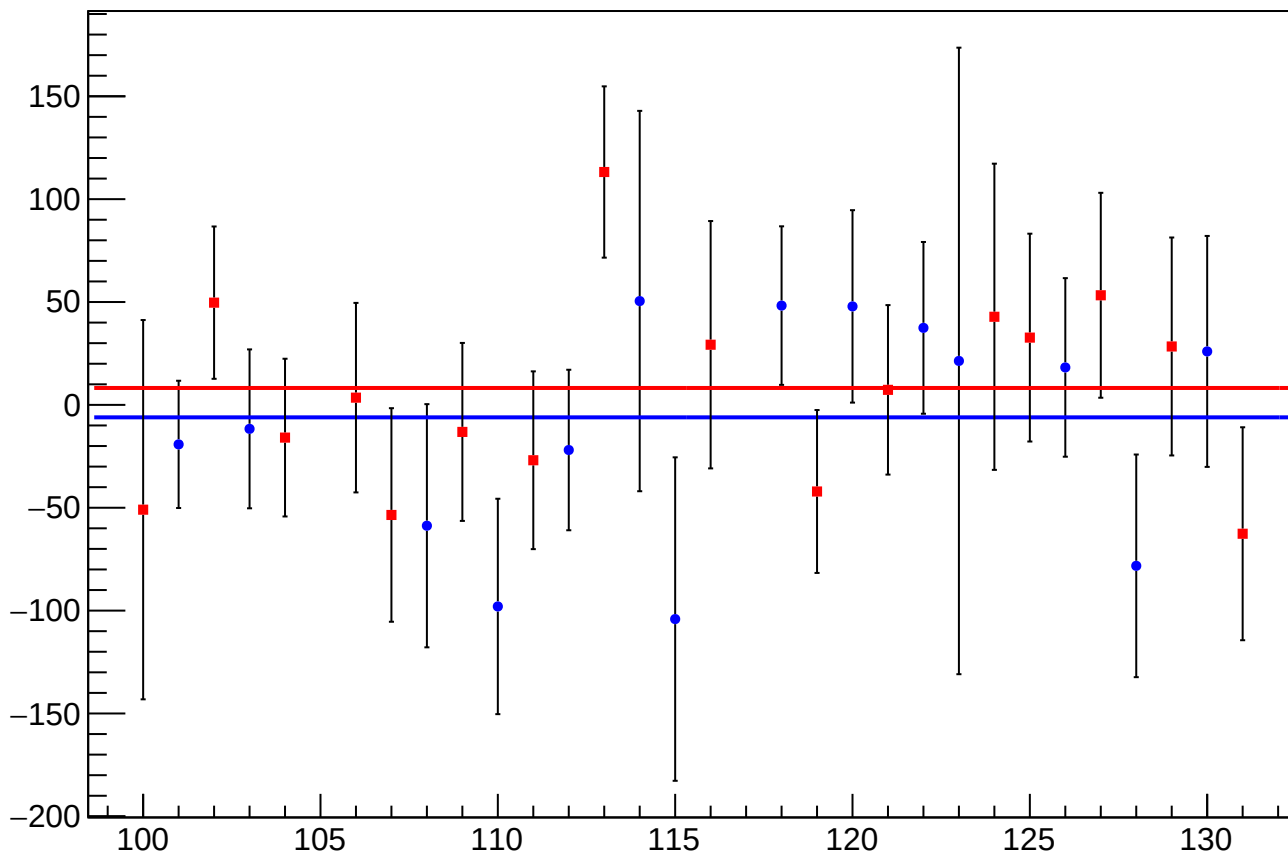
All: 6602.243 $\pm$ 1.538  $\chi^2$ /NDF: 3068252.9/29

- 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\_bpm12X\_mean vs Slug



Right In: -6.059+/-12.659  $\chi^2/\text{NDF}$ : 13.0/13

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

Right Out: 8.221+/-11.763  $\chi^2/\text{NDF}$ : 15.8/15

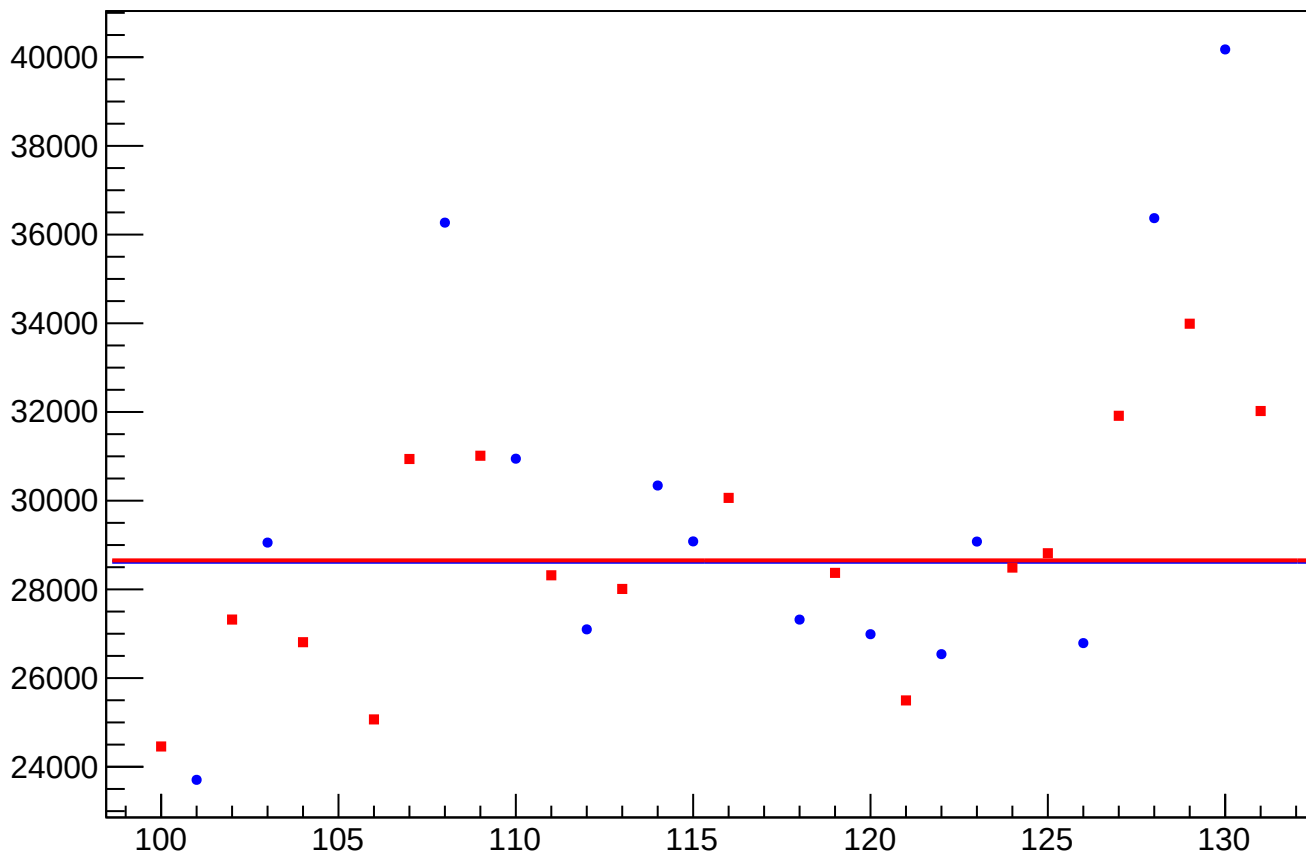
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1.604+/-8.617  $\chi^2/\text{NDF}$ : 29.5/29

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

# diff\_bpm12X\_rms vs Slug



Right In: 28622.581+/-8.951  $\chi^2/\text{NDF}$ : 231040.6/13

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

Right Out: 28654.099+/-8.318  $\chi^2/\text{NDF}$ : 84244.0/15

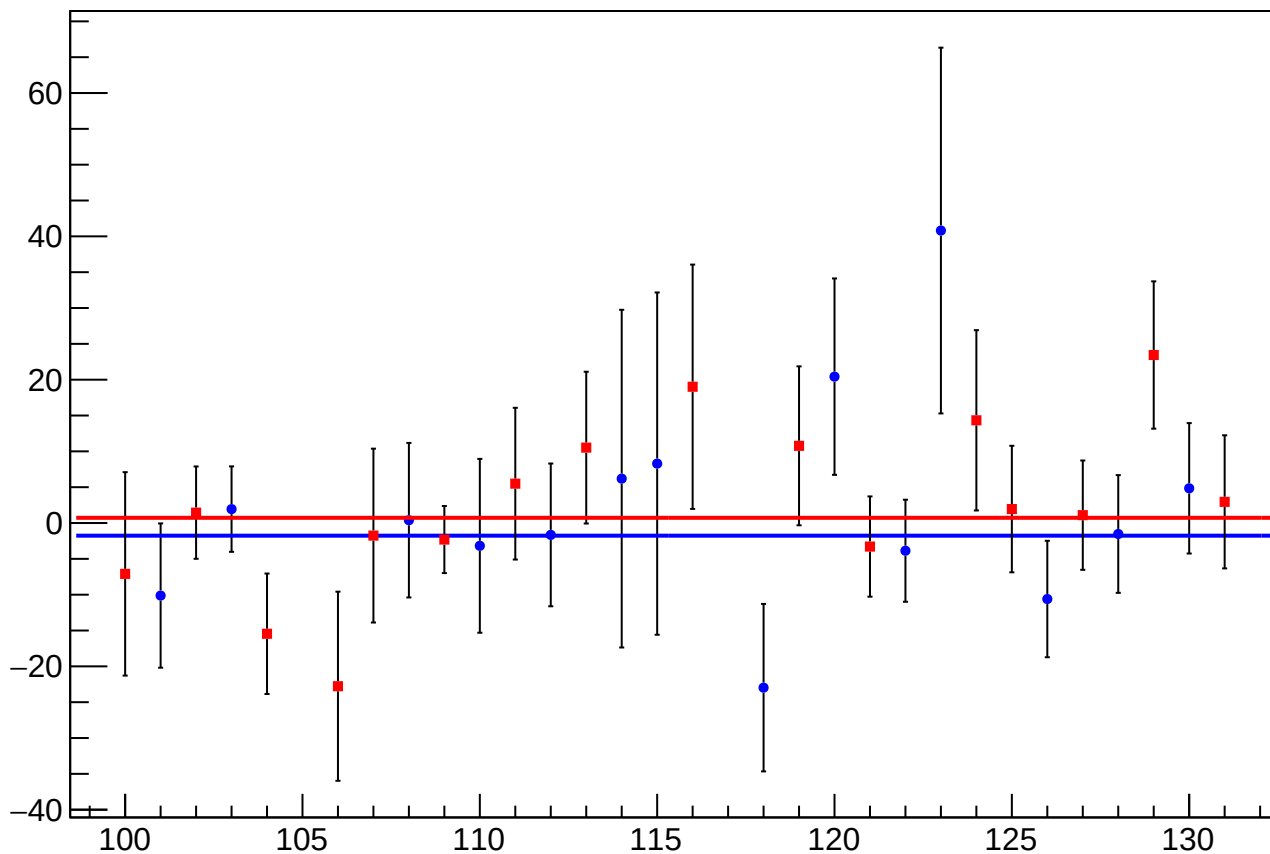
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 28639.494+/-6.093  $\chi^2/\text{NDF}$ : 315291.3/29

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

# diff\_bpm12Y\_mean vs Slug



Right In: -1.765+/-2.644  $\chi^2/\text{NDF}$ : 11.9/13

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

Right Out: 0.729+/-2.189  $\chi^2/\text{NDF}$ : 17.1/15

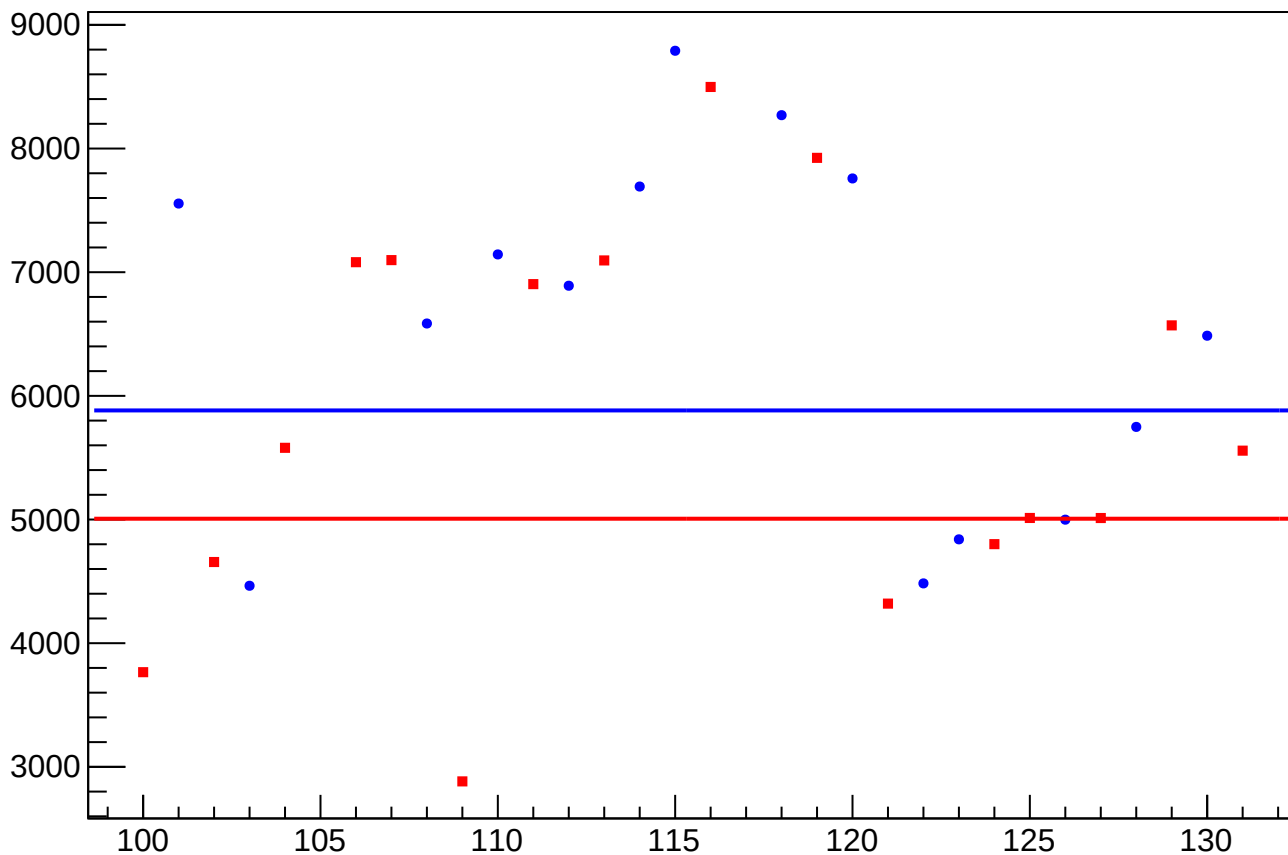
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.285+/-1.686  $\chi^2/\text{NDF}$ : 29.6/29

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

# diff\_bpm12Y\_rms vs Slug



Right In: 5882.233+/-1.870  $\chi^2/\text{NDF}$ : 495007.0/13

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

Right Out: 5006.529+/-1.548  $\chi^2/\text{NDF}$ : 988911.1/15

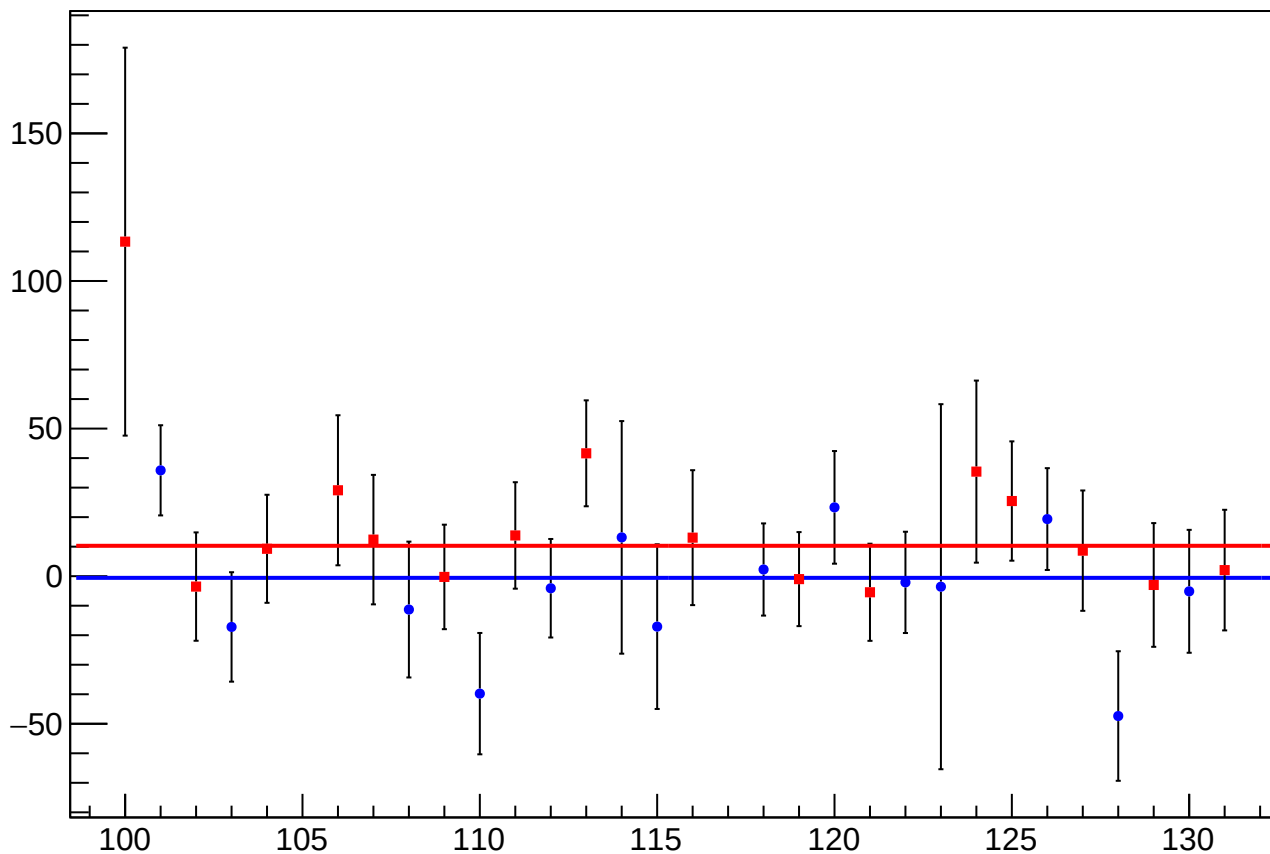
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 5362.624+/-1.192  $\chi^2/\text{NDF}$ : 1614064.1/29

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

# diff\_bpm16X\_mean vs Slug



Right In:  $-0.566 \pm 5.328$   $\chi^2/\text{NDF}$ : 18.4/13

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

Right Out:  $10.292 \pm 5.043$   $\chi^2/\text{NDF}$ : 10.3/15

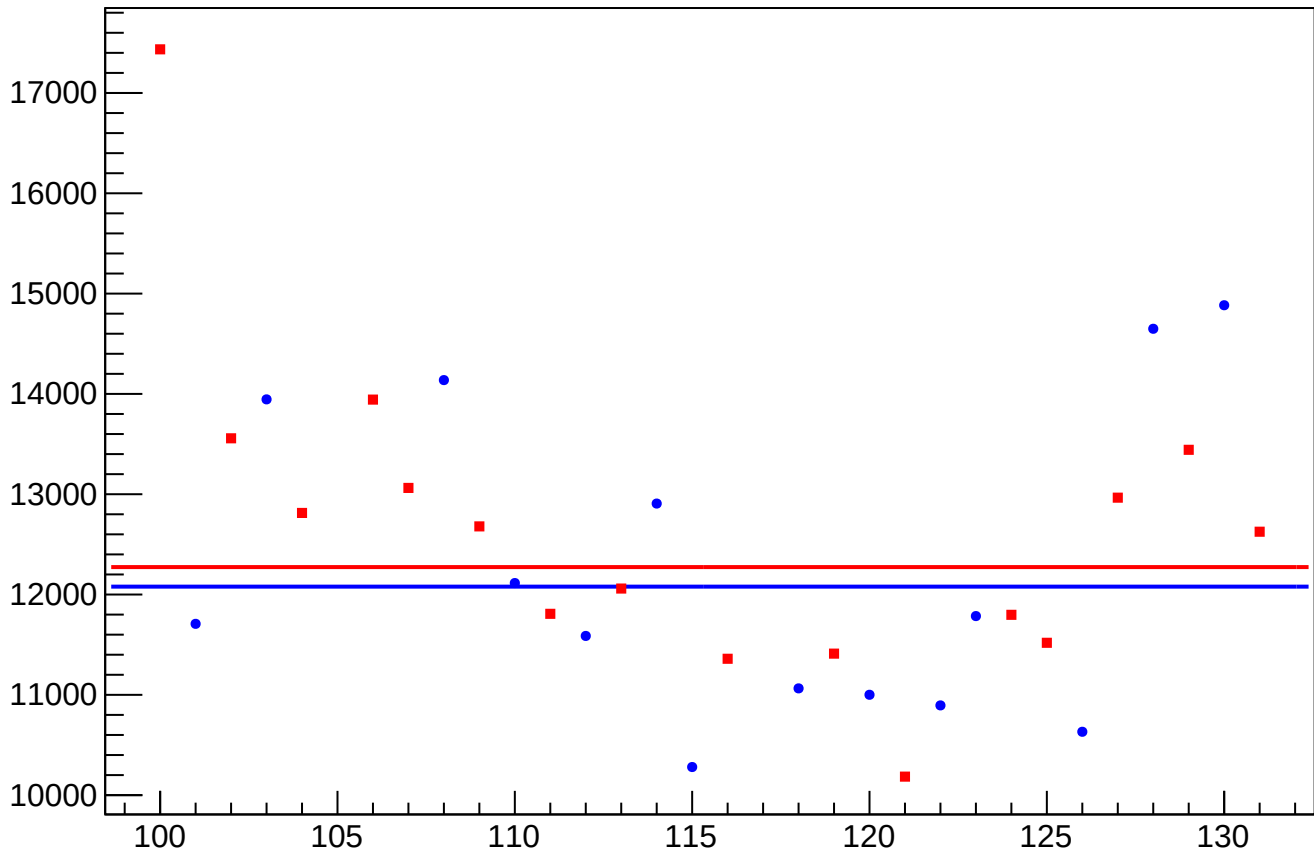
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $5.161 \pm 3.663$   $\chi^2/\text{NDF}$ : 30.9/29

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

# diff\_bpm16X\_rms vs Slug



Right In: 12078.758+/-3.768  $\chi^2/\text{NDF}$ : 150642.1/13

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

Right Out: 12273.578+/-3.566  $\chi^2/\text{NDF}$ : 91452.6/15

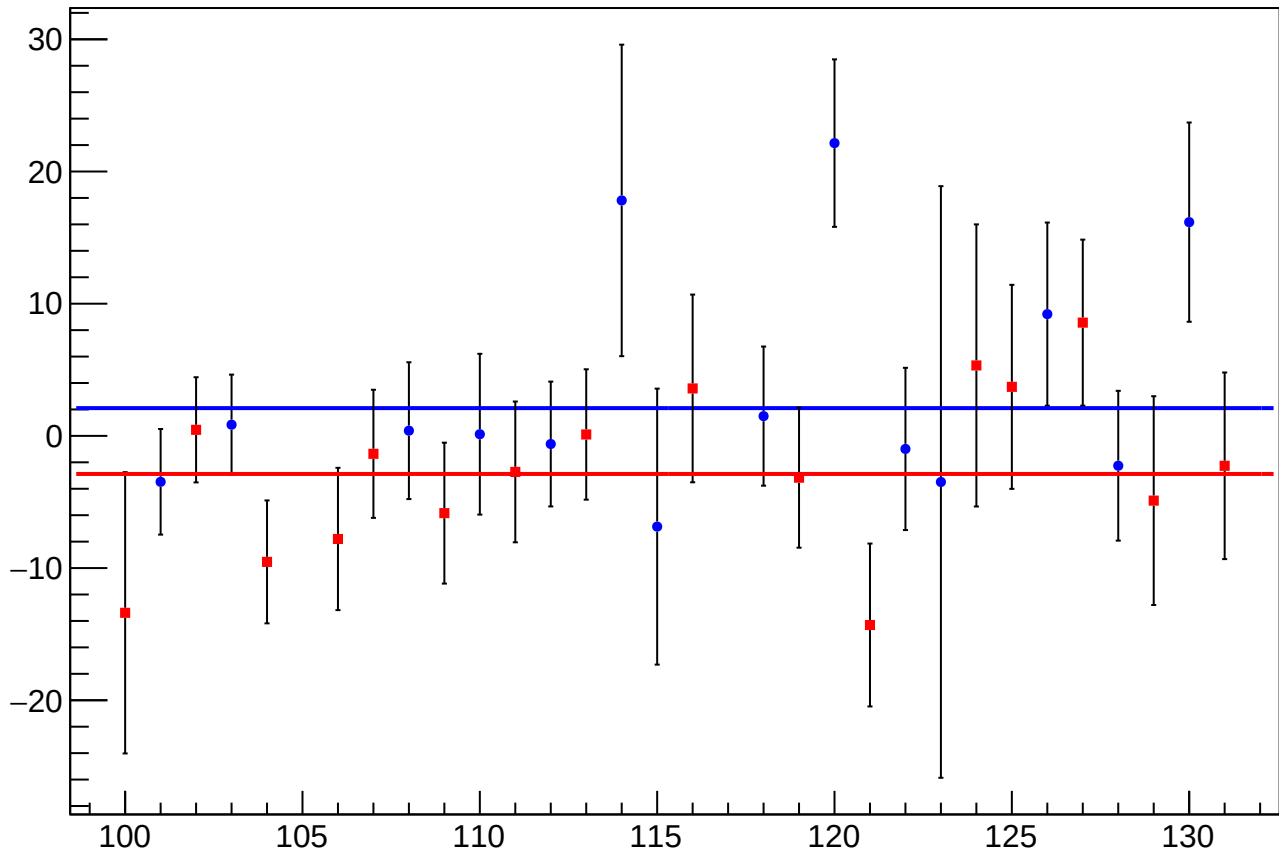
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 12181.513+/-2.590  $\chi^2/\text{NDF}$ : 243505.0/29

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

# diff\_bpm16Y\_mean vs Slug



Right In: 2.100 $\pm$ 1.548  $\chi^2$ /NDF: 20.6/13

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

Right Out: -2.880 $\pm$ 1.450  $\chi^2$ /NDF: 14.3/15

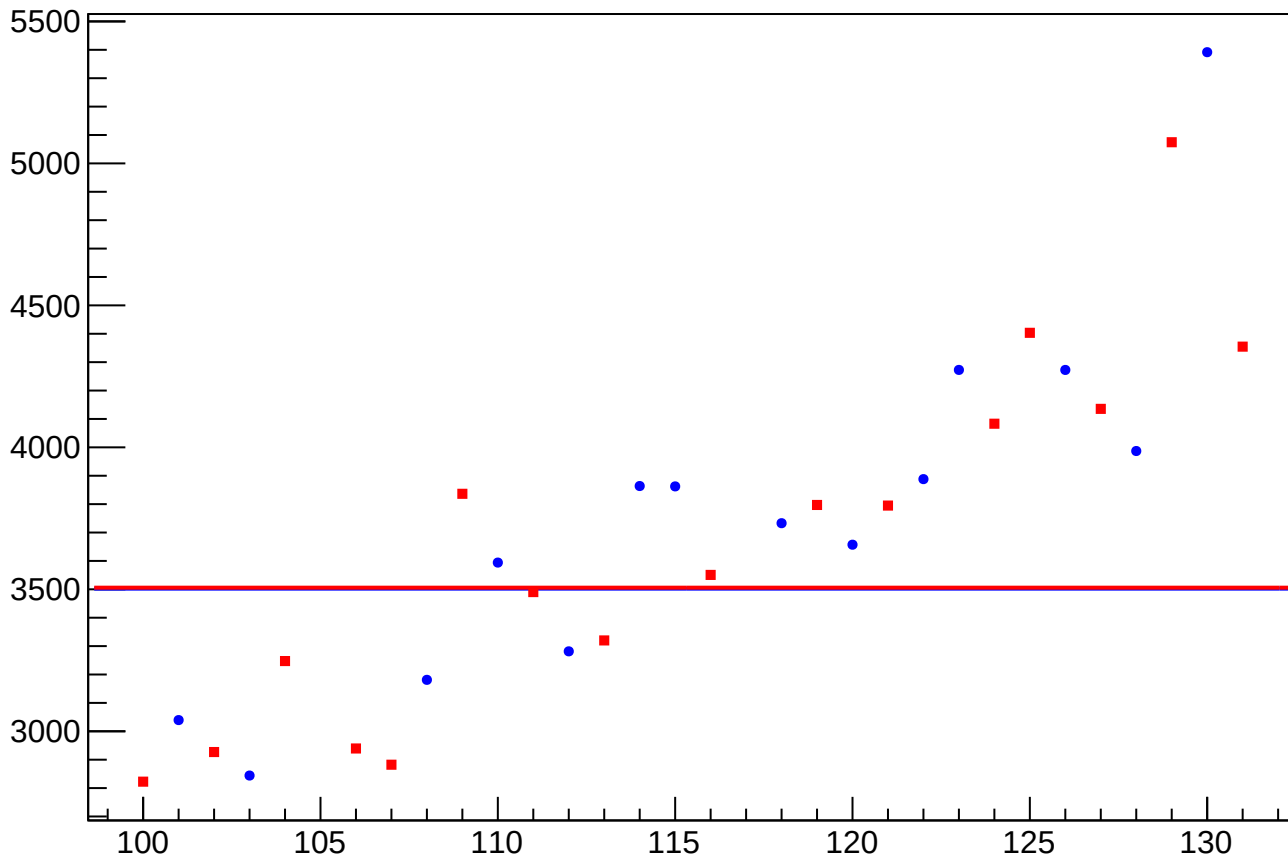
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.554 $\pm$ 1.058  $\chi^2$ /NDF: 40.4/29

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

# diff\_bpm16Y\_rms vs Slug



Right In: 3502.443+/-1.095     $\chi^2/\text{NDF}$ : 284306.9/13

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: 3505.792+/-1.025     $\chi^2/\text{NDF}$ : 293960.5/15

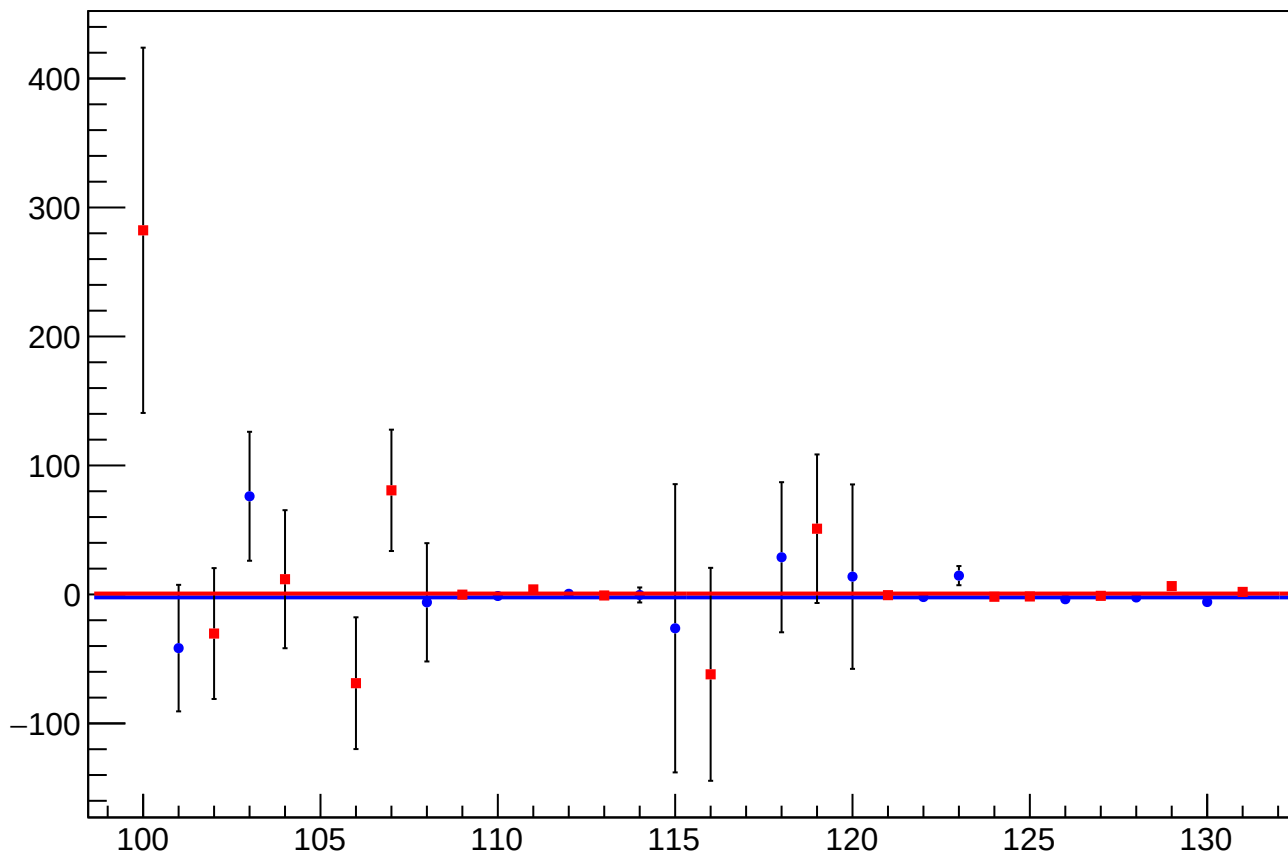
All: 3504.228+/-0.748     $\chi^2/\text{NDF}$ : 578272.3/29

- 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\_bpm1p02bX\_mean vs Slug



Right In:  $-2.274 \pm 0.967$   $\chi^2/\text{NDF}: 12.9/13$

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

Right Out:  $0.684 \pm 0.827$   $\chi^2/\text{NDF}: 19.9/15$

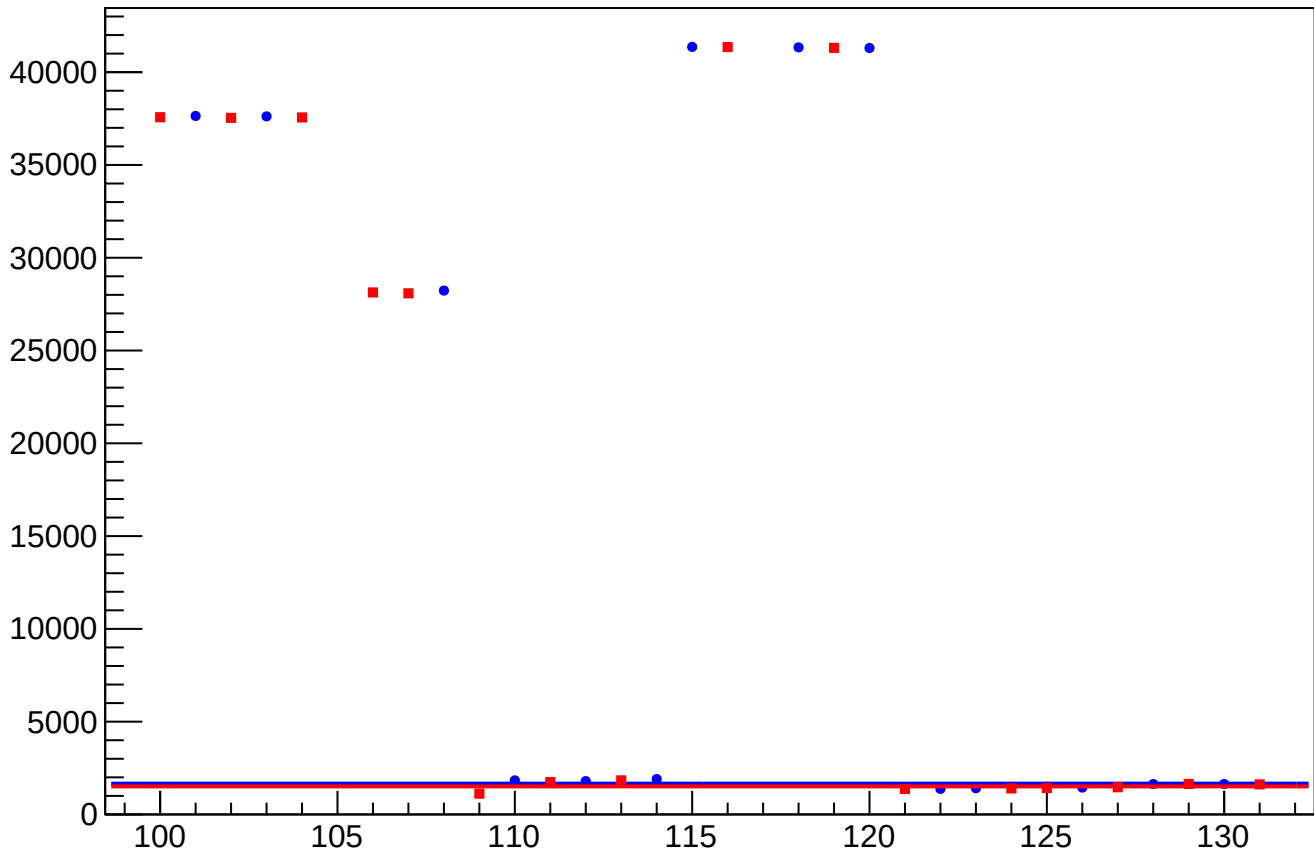
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

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

All:  $-0.565 \pm 0.628$   $\chi^2/\text{NDF}: 38.1/29$

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

# diff\_bpm1p02bX\_rms vs Slug



Right In: 1659.791+/-0.684  $\chi^2/\text{NDF}$ : 4648274.2/13

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

Right Out: 1512.482+/-0.584  $\chi^2/\text{NDF}$ : 4811230.2/15

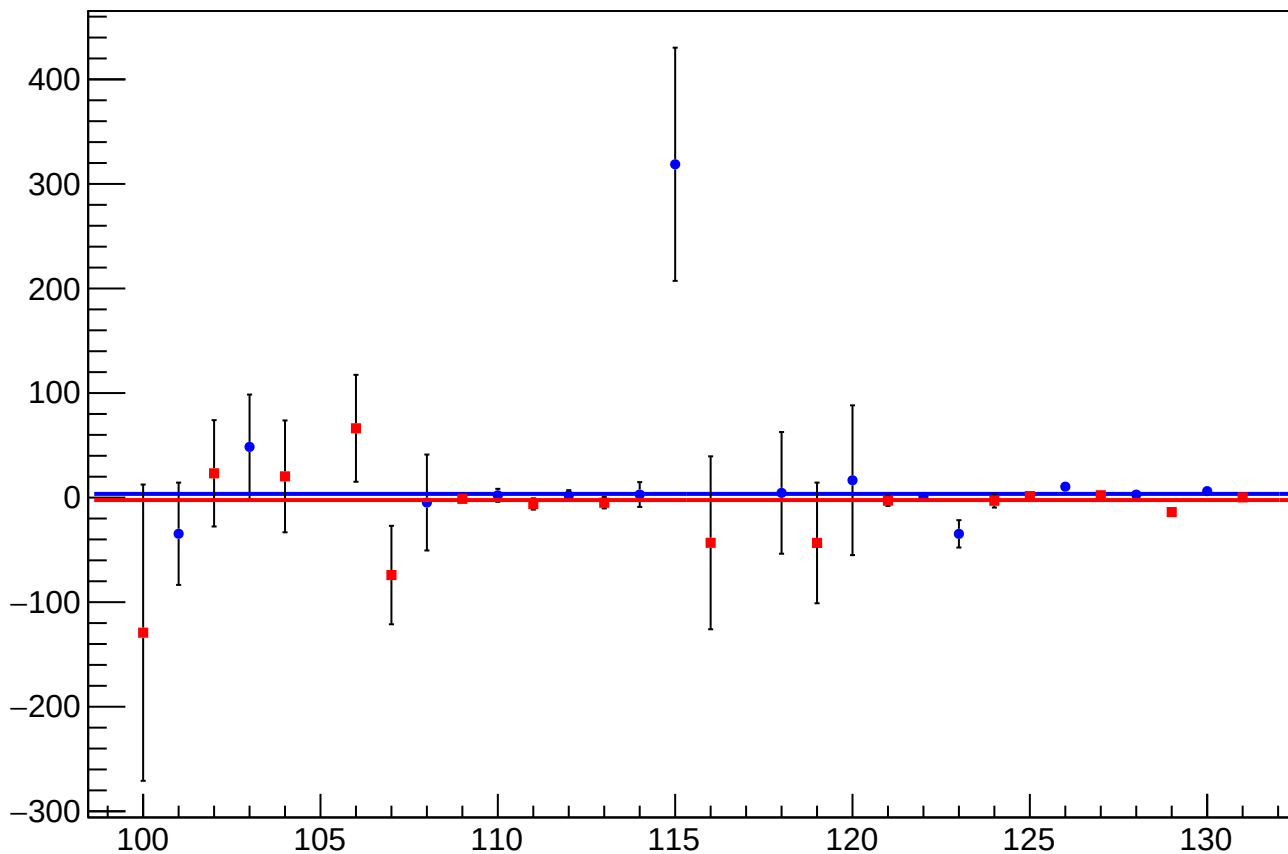
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1574.657+/-0.444  $\chi^2/\text{NDF}$ : 9486313.9/29

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

# diff\_bpm1p02bY\_mean vs Slug



Right In: 3.558 $\pm$ 1.762  $\chi^2$ /NDF: 21.8/13

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

Right Out: -2.355 $\pm$ 1.445  $\chi^2$ /NDF: 15.3/15

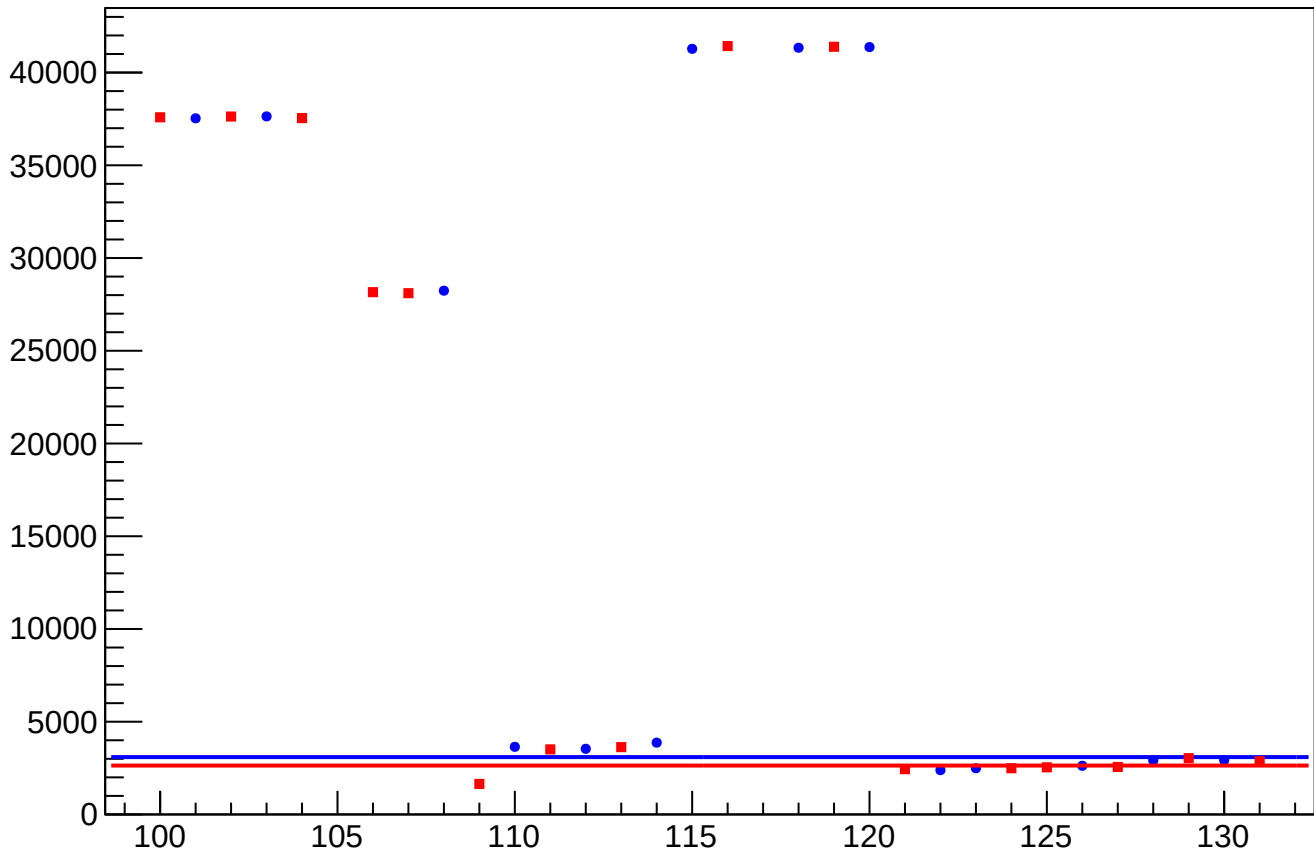
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.022 $\pm$ 1.117  $\chi^2$ /NDF: 43.8/29

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

# diff\_bpm1p02bY\_rms vs Slug



Right In: 3092.360+/-1.246  $\chi^2/\text{NDF}$ : 4361249.0/13

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

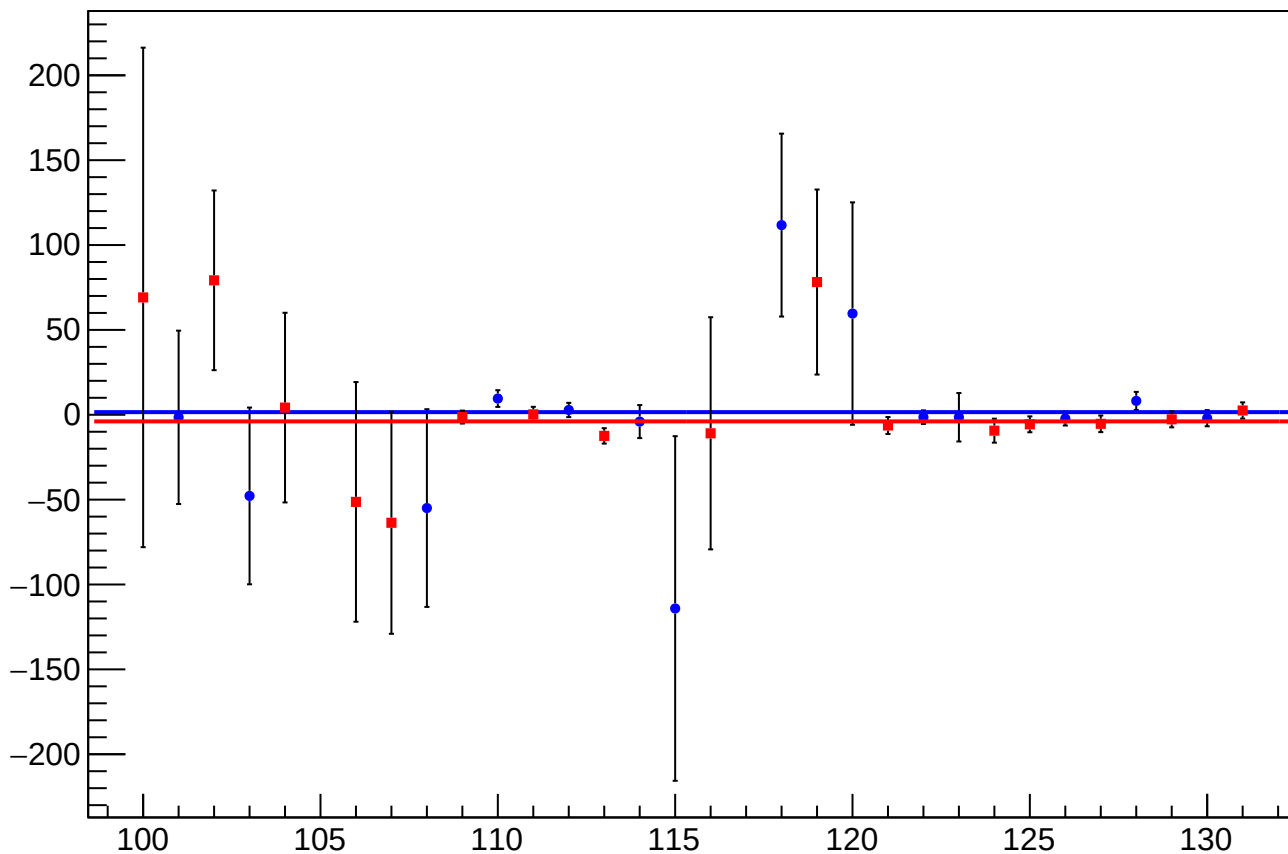
Right Out: 2636.346+/-1.022  $\chi^2/\text{NDF}$ : 4762512.9/15

All: 2819.678+/-0.790  $\chi^2/\text{NDF}$ : 9203840.1/29

- 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\_bpm1p03aX\_mean vs Slug



Right In: 1.552+/-1.779  $\chi^2/\text{NDF}$ : 14.7/13

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

Right Out: -3.901+/-1.569  $\chi^2/\text{NDF}$ : 14.1/15

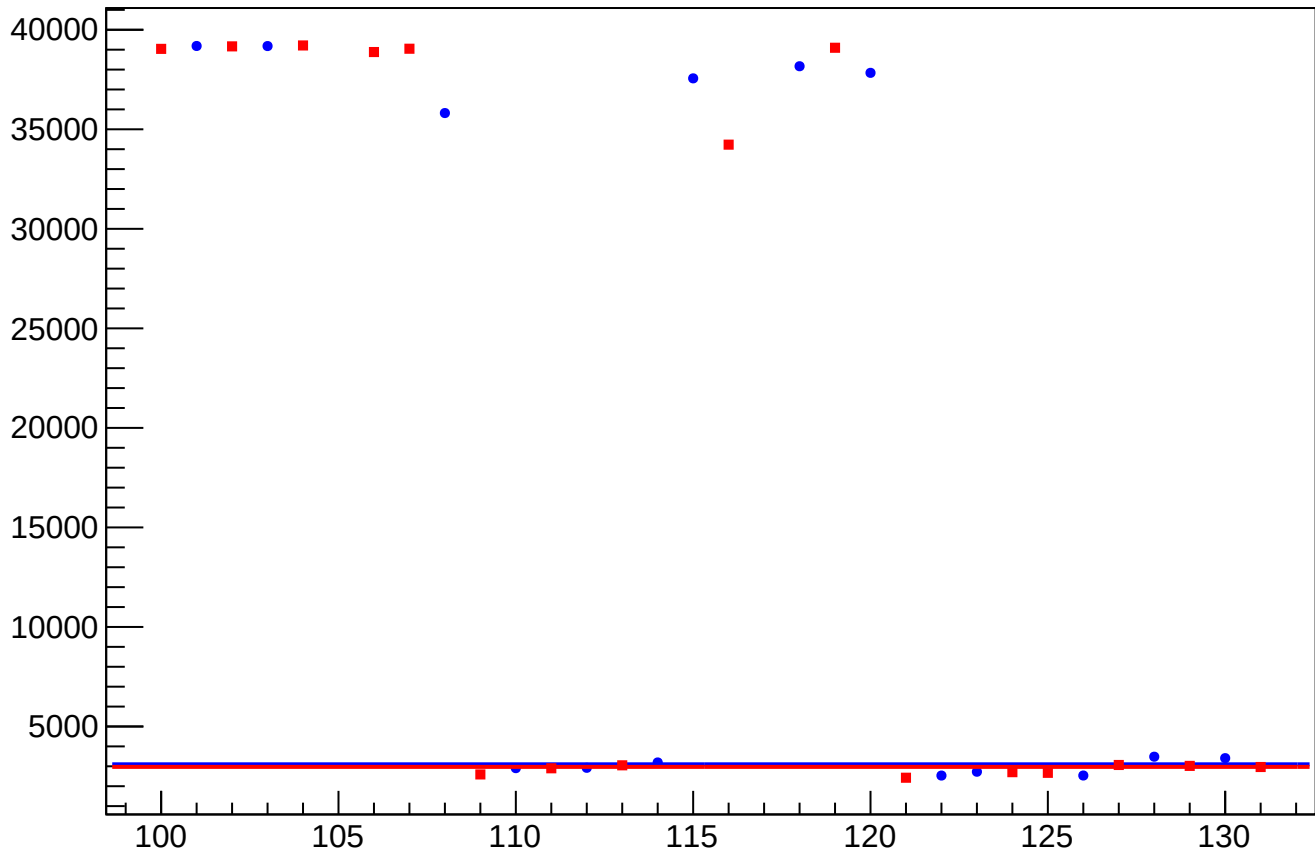
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -1.515+/-1.177  $\chi^2/\text{NDF}$ : 34.1/29

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

# diff\_bpm1p03aX\_rms vs Slug



Right In: 3100.194+/-1.258     $\chi^2/\text{NDF}$ : 4334733.7/13

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

Right Out: 2970.952+/-1.109     $\chi^2/\text{NDF}$ : 4375166.3/15

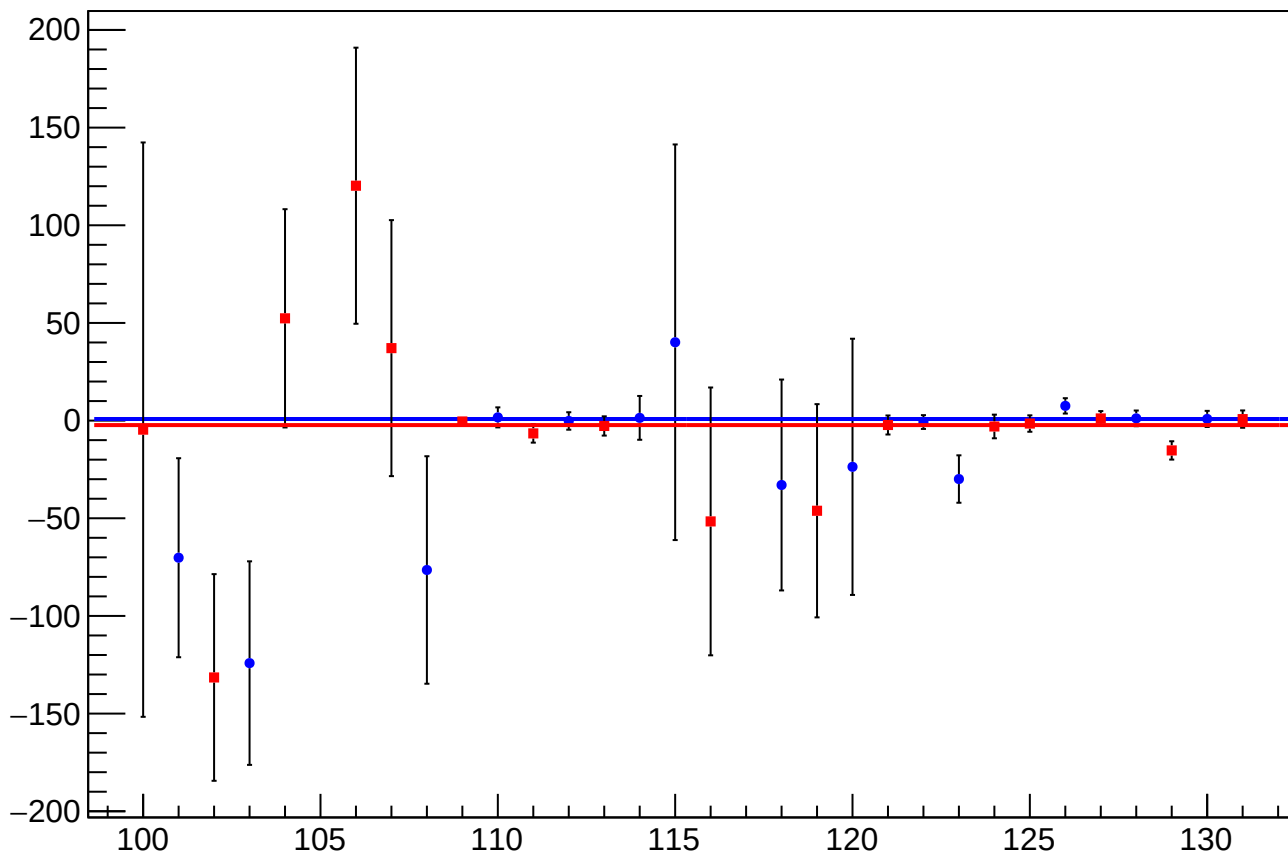
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

All: 3027.511+/-0.832     $\chi^2/\text{NDF}$ : 8715839.5/29

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

# diff\_bpm1p03aY\_mean vs Slug



Right In:  $0.819 \pm 1.644$   $\chi^2/\text{NDF}$ : 19.8/13

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

Right Out:  $-2.295 \pm 1.298$   $\chi^2/\text{NDF}$ : 22.0/15

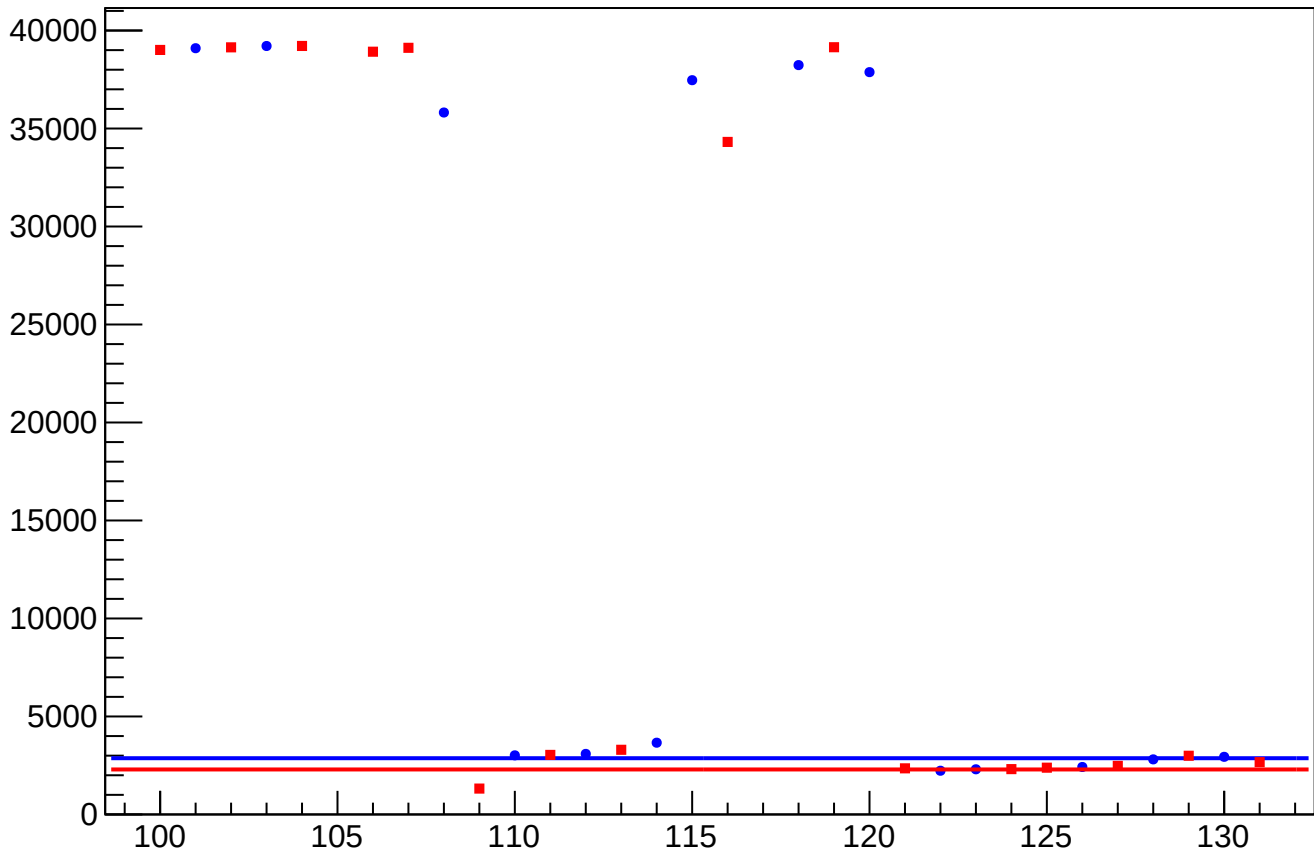
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-1.099 \pm 1.019$   $\chi^2/\text{NDF}$ : 44.0/29

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

# diff\_bpm1p03aY\_rms vs Slug



Right In: 2869.865+/-1.162  $\chi^2/\text{NDF}$ : 4399133.0/13

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: 2295.792+/-0.918  $\chi^2/\text{NDF}$ : 5086987.9/15

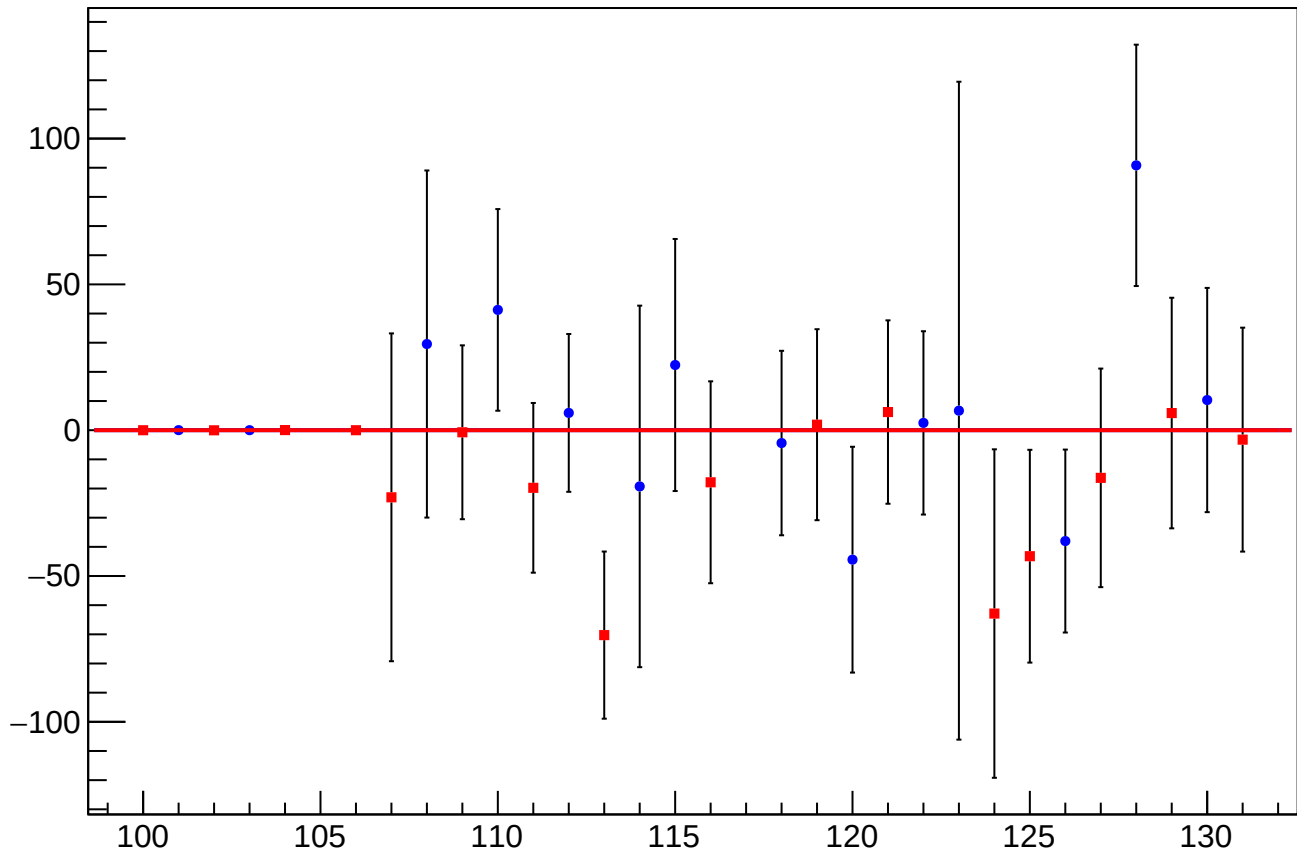
All: 2516.281+/-0.720  $\chi^2/\text{NDF}$ : 9636382.4/29

- 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\_cav4bX\_mean vs Slug



Right In: 0.013 $\pm$ 0.017  $\chi^2$ /NDF: 9.9/13

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

Right Out: 0.003 $\pm$ 0.016  $\chi^2$ /NDF: 14.6/15

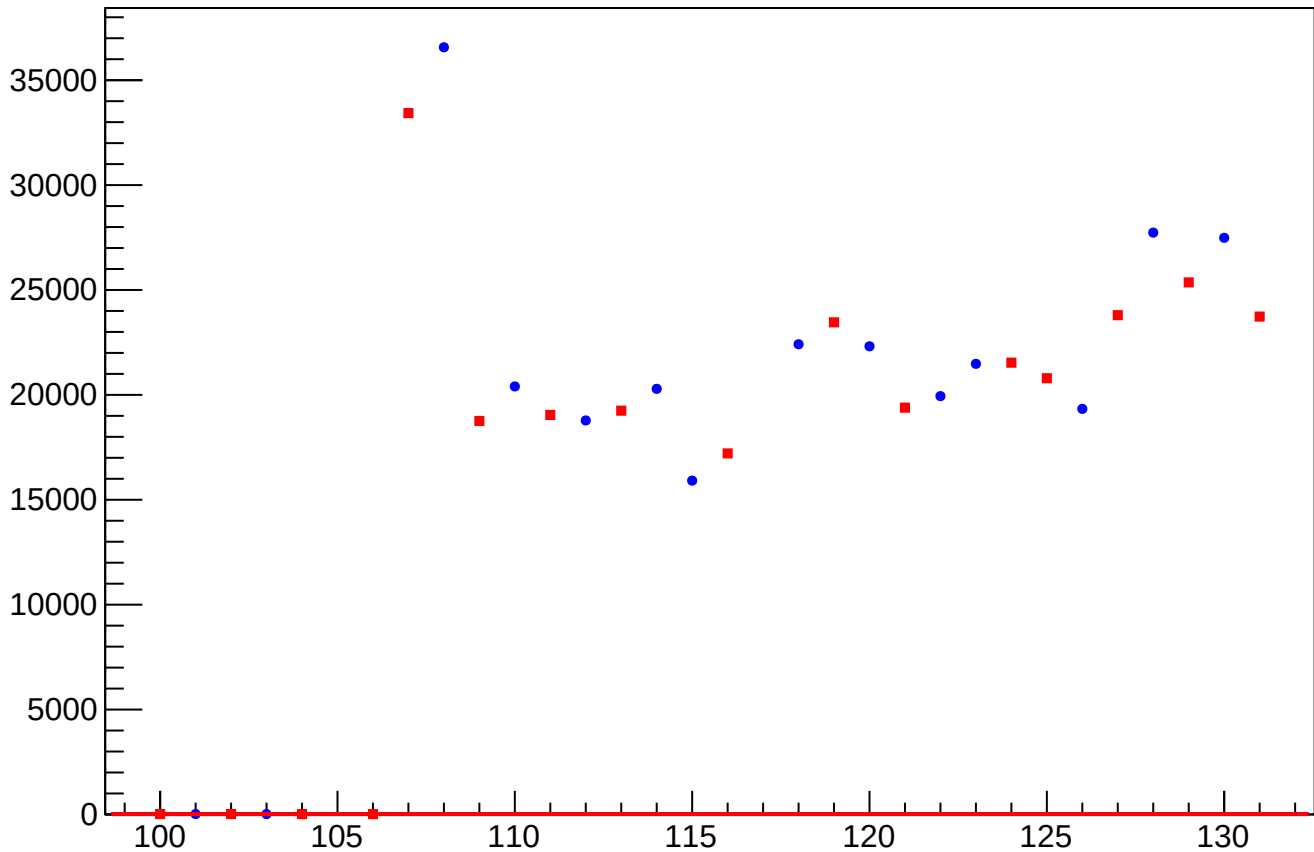
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.008 $\pm$ 0.012  $\chi^2$ /NDF: 24.8/29

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

# diff\_cav4bX\_rms vs Slug



Right In: 18.614+/-0.012  $\chi^2/\text{NDF}$ : 8125389.1/13

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

Right Out: 18.295+/-0.011  $\chi^2/\text{NDF}$ : 8872748.0/15

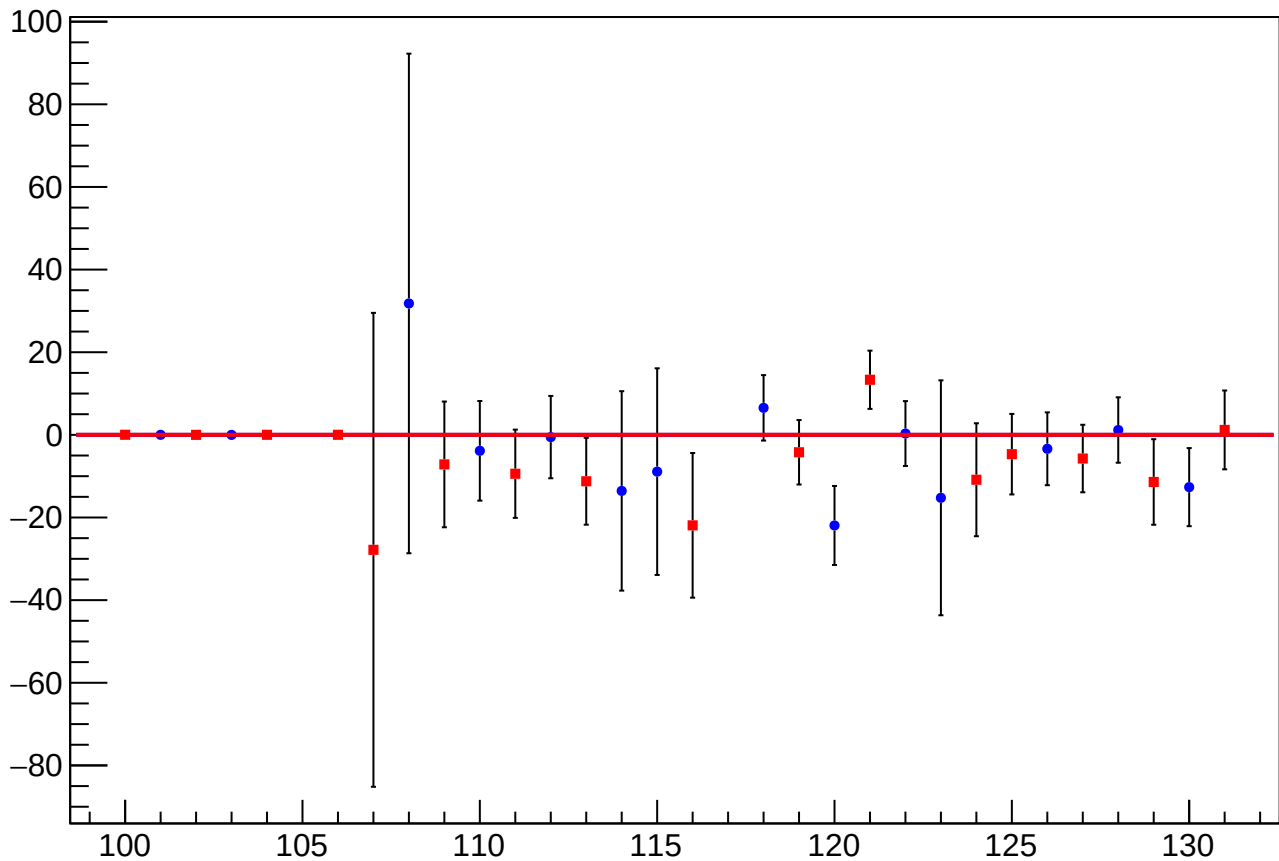
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 18.442+/-0.008  $\chi^2/\text{NDF}$ : 16998502.4/29

- 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: 10.1/13

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

Right Out: 0.014 $\pm$ 0.009  $\chi^2$ /NDF: 11.1/15

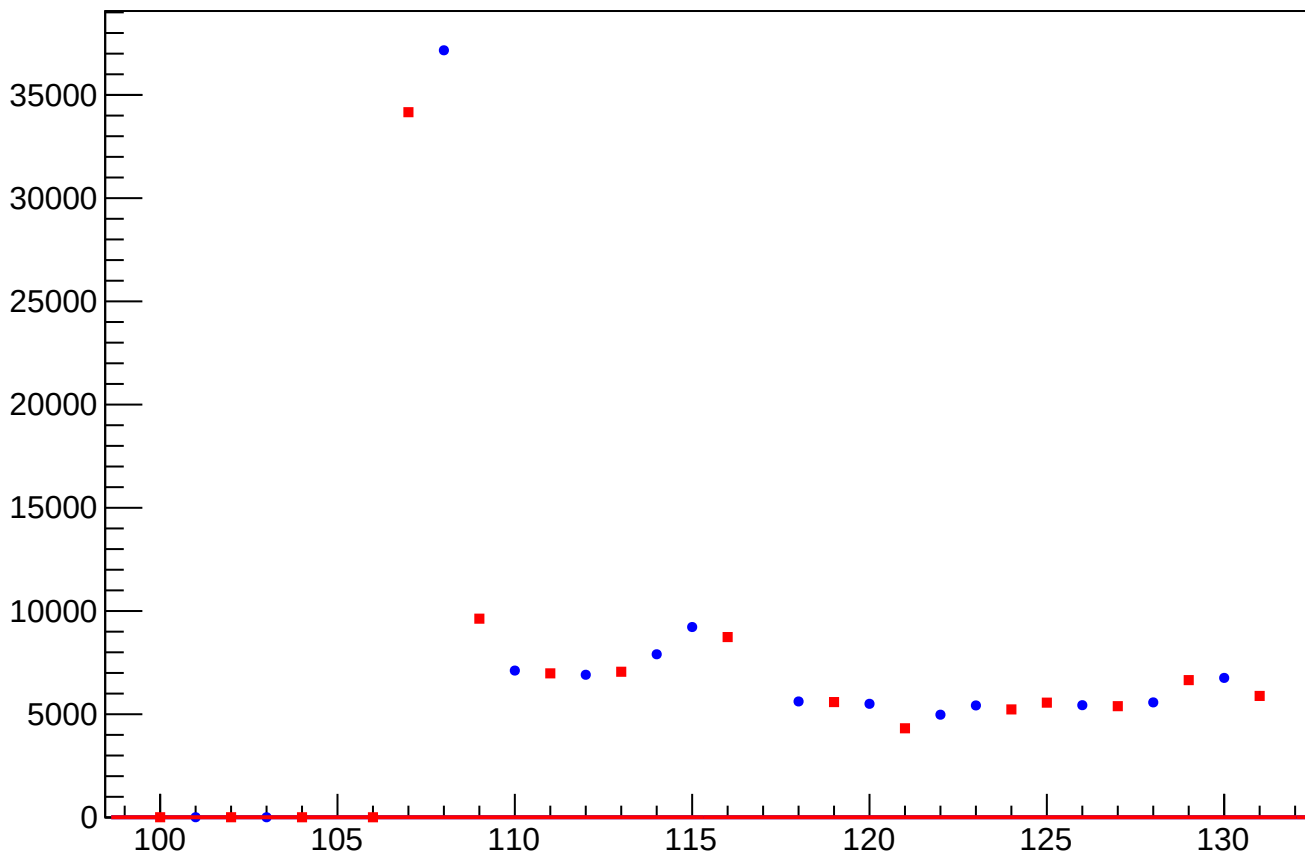
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.008 $\pm$ 0.006  $\chi^2$ /NDF: 22.4/29

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

# diff\_cav4bY\_rms vs Slug



Right In: 9.908+/-0.007     $\chi^2/\text{NDF}$ : 8211744.8/13

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

Right Out: 9.831+/-0.006     $\chi^2/\text{NDF}$ : 8934715.9/15

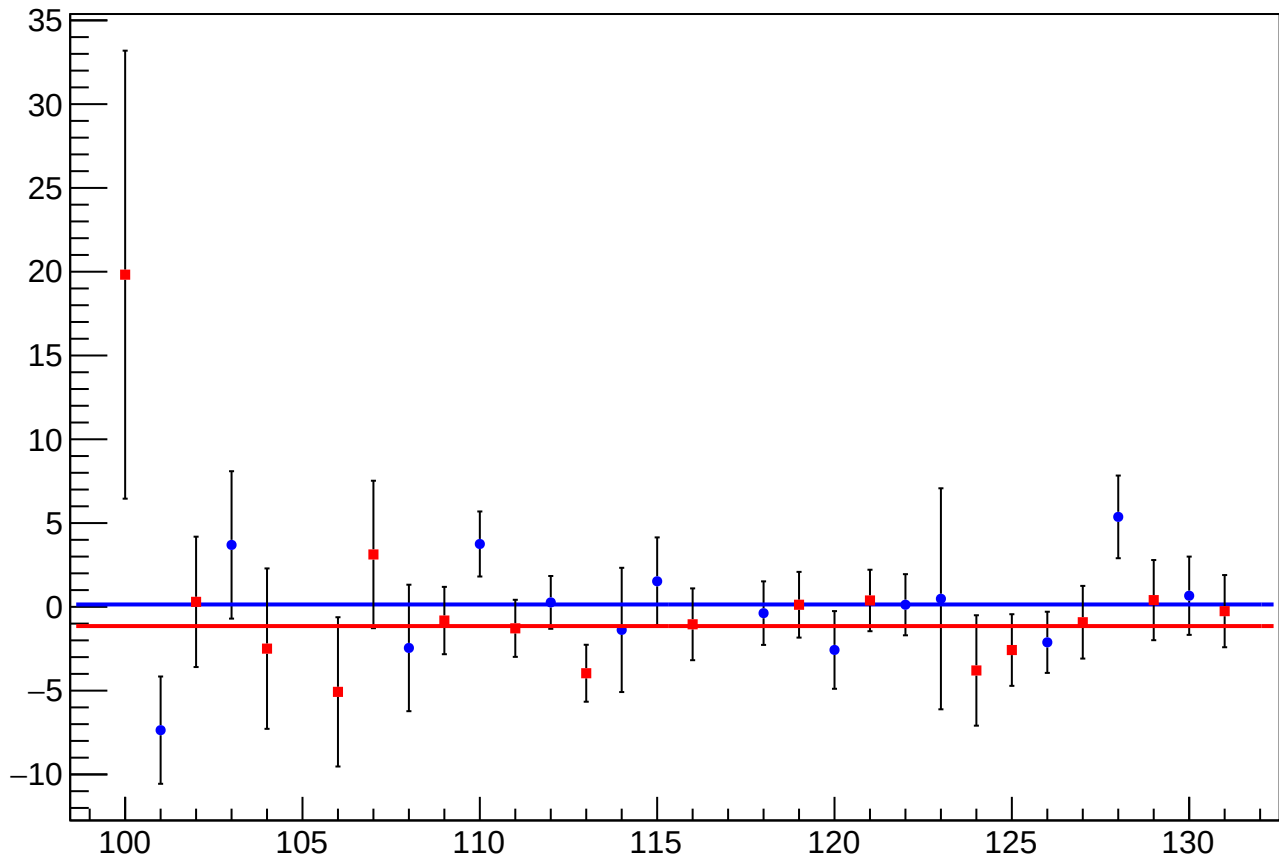
Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

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

All: 9.867+/-0.004     $\chi^2/\text{NDF}$ : 17146535.0/29

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

# diff\_cav4cX\_mean vs Slug



Right In: 0.142 $\pm$ 0.627  $\chi^2$ /NDF: 18.0/13

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

Right Out: -1.147 $\pm$ 0.593  $\chi^2$ /NDF: 10.0/15

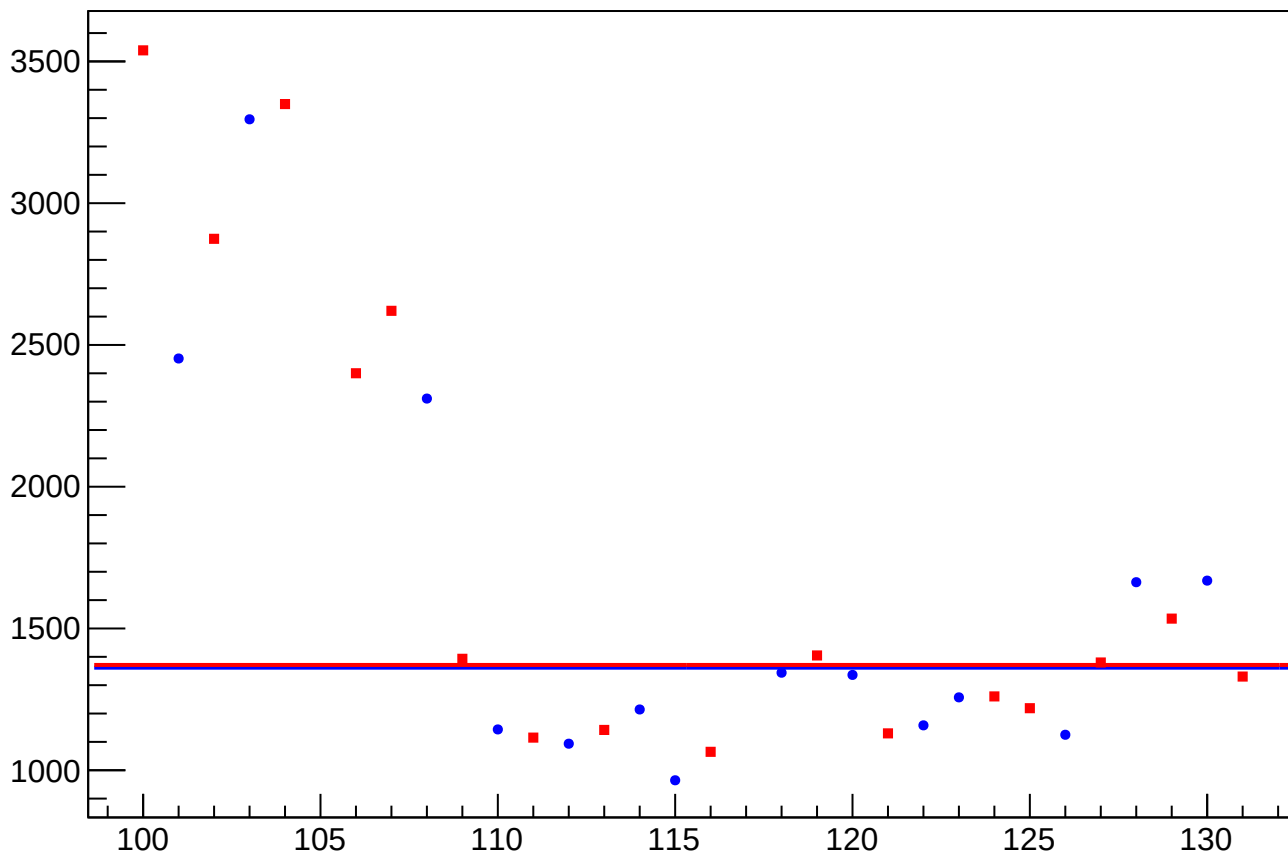
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.538 $\pm$ 0.431  $\chi^2$ /NDF: 30.3/29

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

# diff\_cav4cX\_rms vs Slug



Right In: 1361.779 $\pm$ 0.443  $\chi^2$ /NDF: 1001479.1/13

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

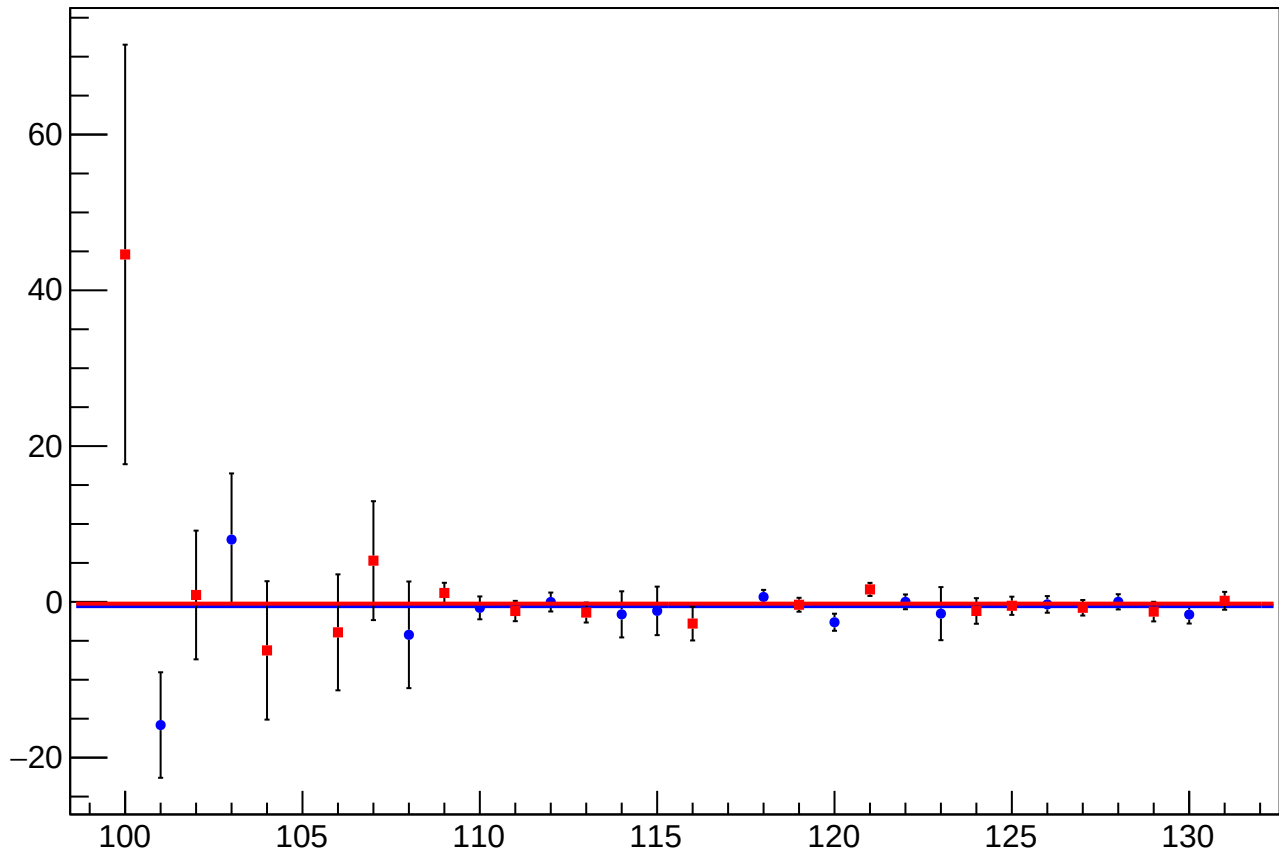
Right Out: 1371.382 $\pm$ 0.419  $\chi^2$ /NDF: 1141329.9/15

All: 1366.850 $\pm$ 0.305  $\chi^2$ /NDF: 2143056.6/29

- 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\_cav4cY\_mean vs Slug



Right In:  $-0.550 \pm 0.369$   $\chi^2/\text{NDF}$ : 13.7/13

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

Right Out:  $-0.228 \pm 0.348$   $\chi^2/\text{NDF}$ : 14.0/15

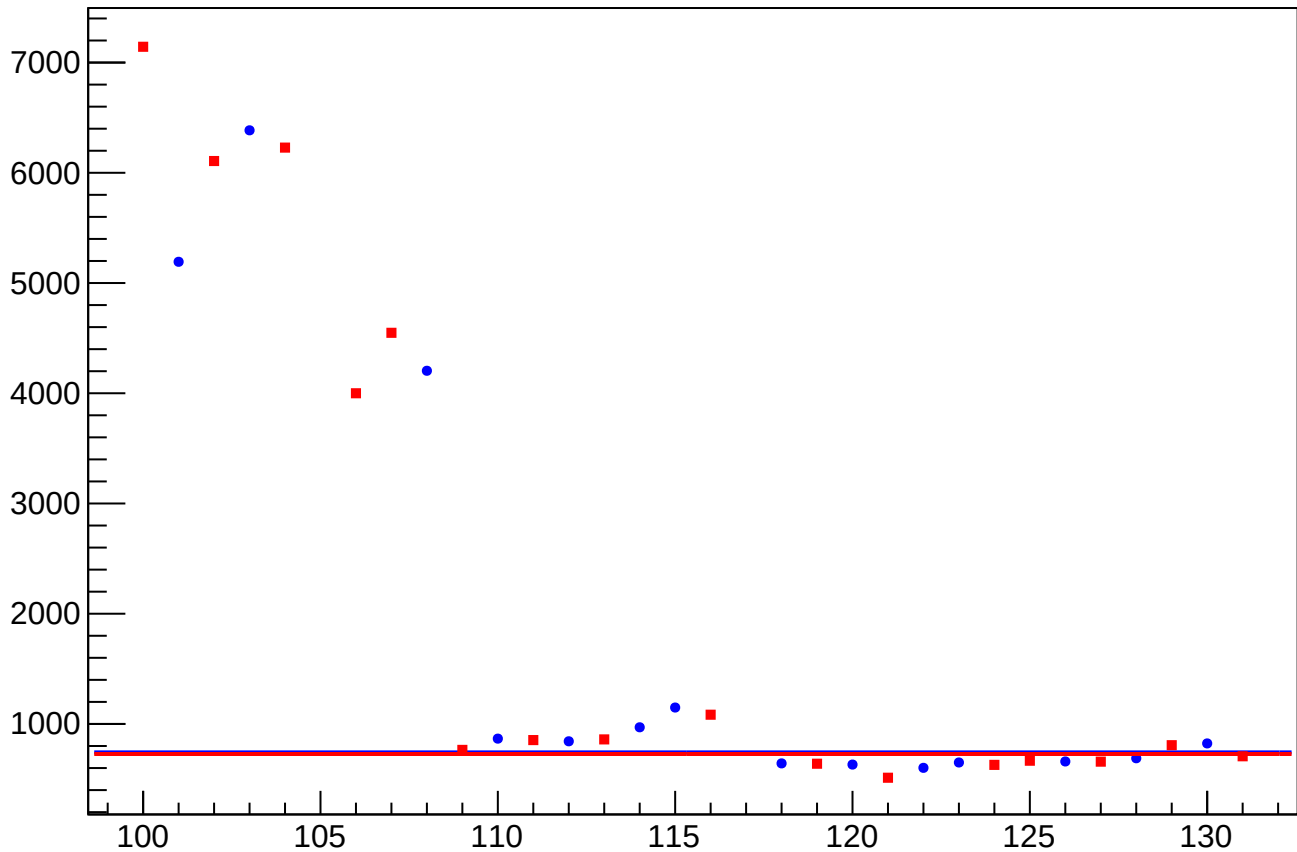
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.380 \pm 0.253$   $\chi^2/\text{NDF}$ : 28.1/29

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

# diff\_cav4cY\_rms vs Slug



Right In: 742.017 $\pm$ 0.261  $\chi^2$ /NDF: 2449291.9/13

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

Right Out: 727.533 $\pm$ 0.246  $\chi^2$ /NDF: 2893249.1/15

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

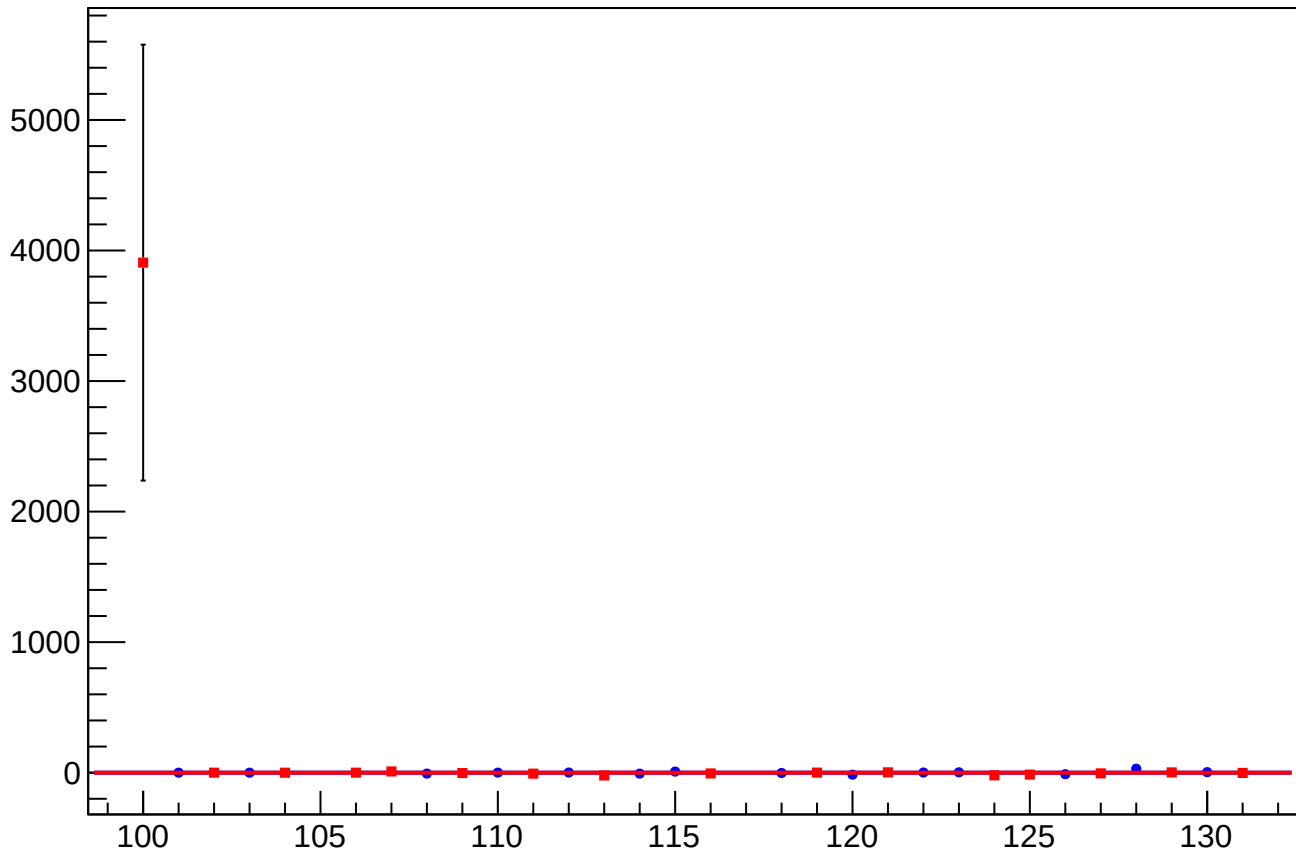
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 734.356 $\pm$ 0.179  $\chi^2$ /NDF: 5344170.1/29

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



# diff\_cav4dX\_mean vs Slug



Right In:  $-0.021 \pm 0.021$   $\chi^2/\text{NDF}$ : 9.0/13

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

Right Out:  $-0.027 \pm 0.020$   $\chi^2/\text{NDF}$ : 16.5/15

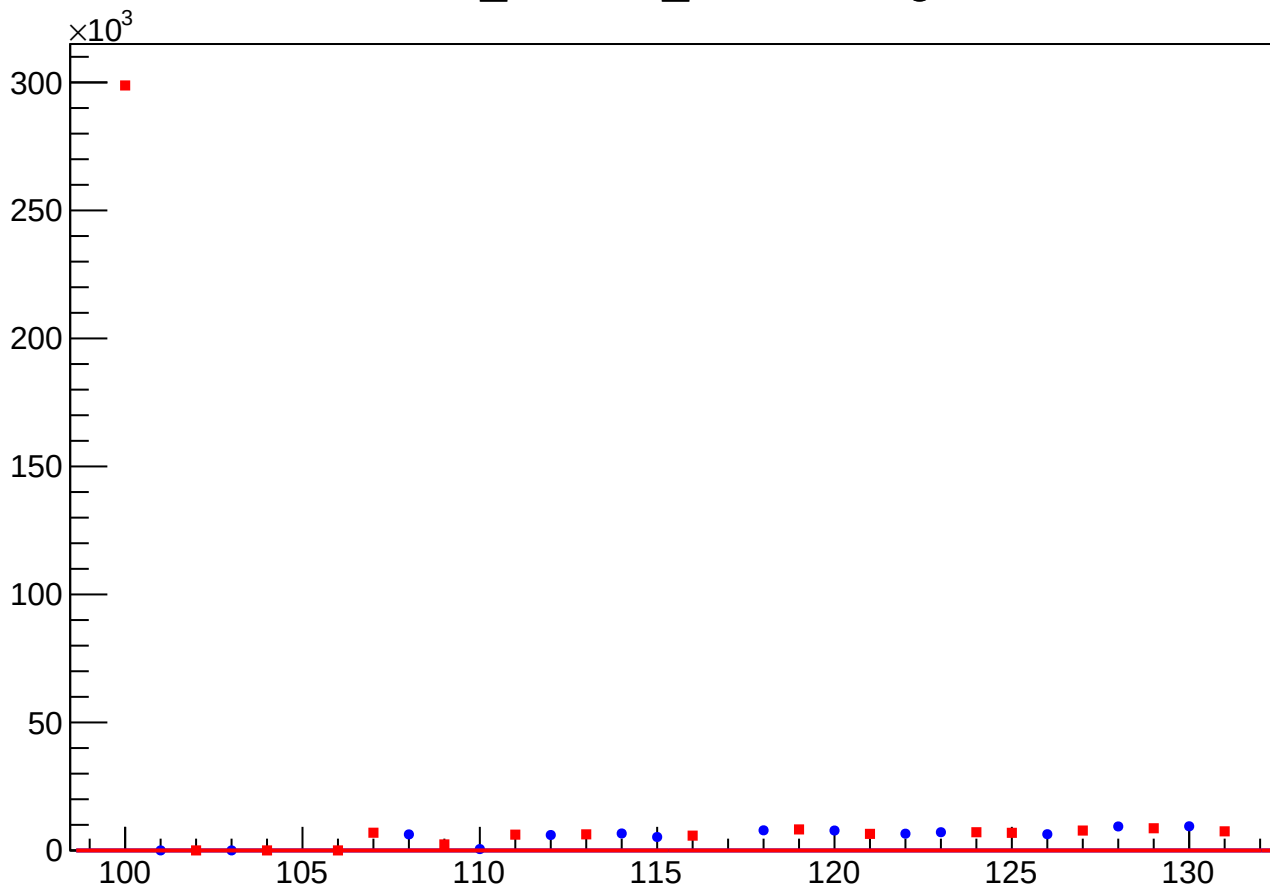
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-0.024 \pm 0.014$   $\chi^2/\text{NDF}$ : 25.5/29

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

# diff\_cav4dX\_rms vs Slug



Right In: 17.224 $\pm$ 0.015  $\chi^2/\text{NDF}$ : 7652779.0/13

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

Right Out: 17.196 $\pm$ 0.014  $\chi^2/\text{NDF}$ : 8591022.7/15

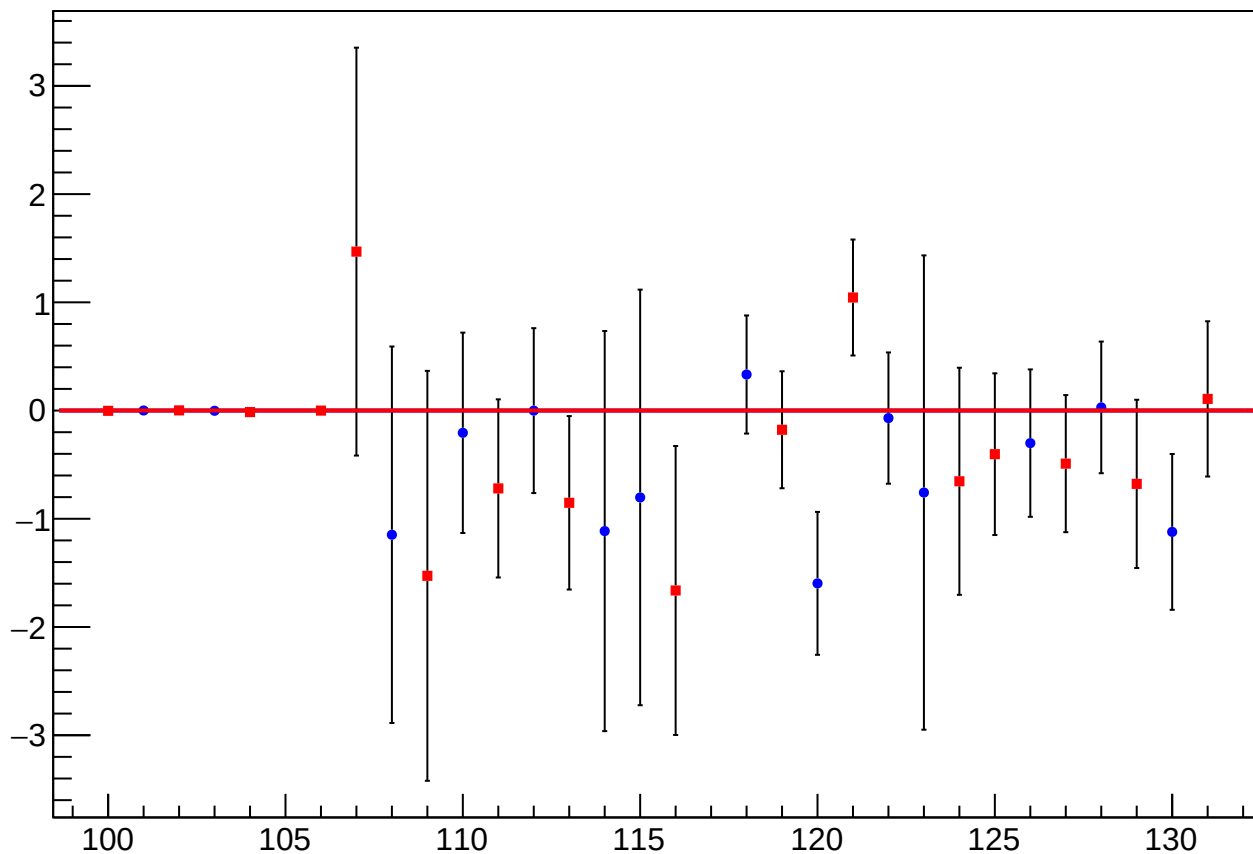
Left In: 0.000 $\pm$ 0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 17.209 $\pm$ 0.010  $\chi^2/\text{NDF}$ : 16243803.6/29

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

# diff\_cav4dY\_mean vs Slug



Right In: 0.000 $\pm$ 0.002  $\chi^2$ /NDF: 10.2/13

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

Right Out: 0.001 $\pm$ 0.002  $\chi^2$ /NDF: 11.7/15

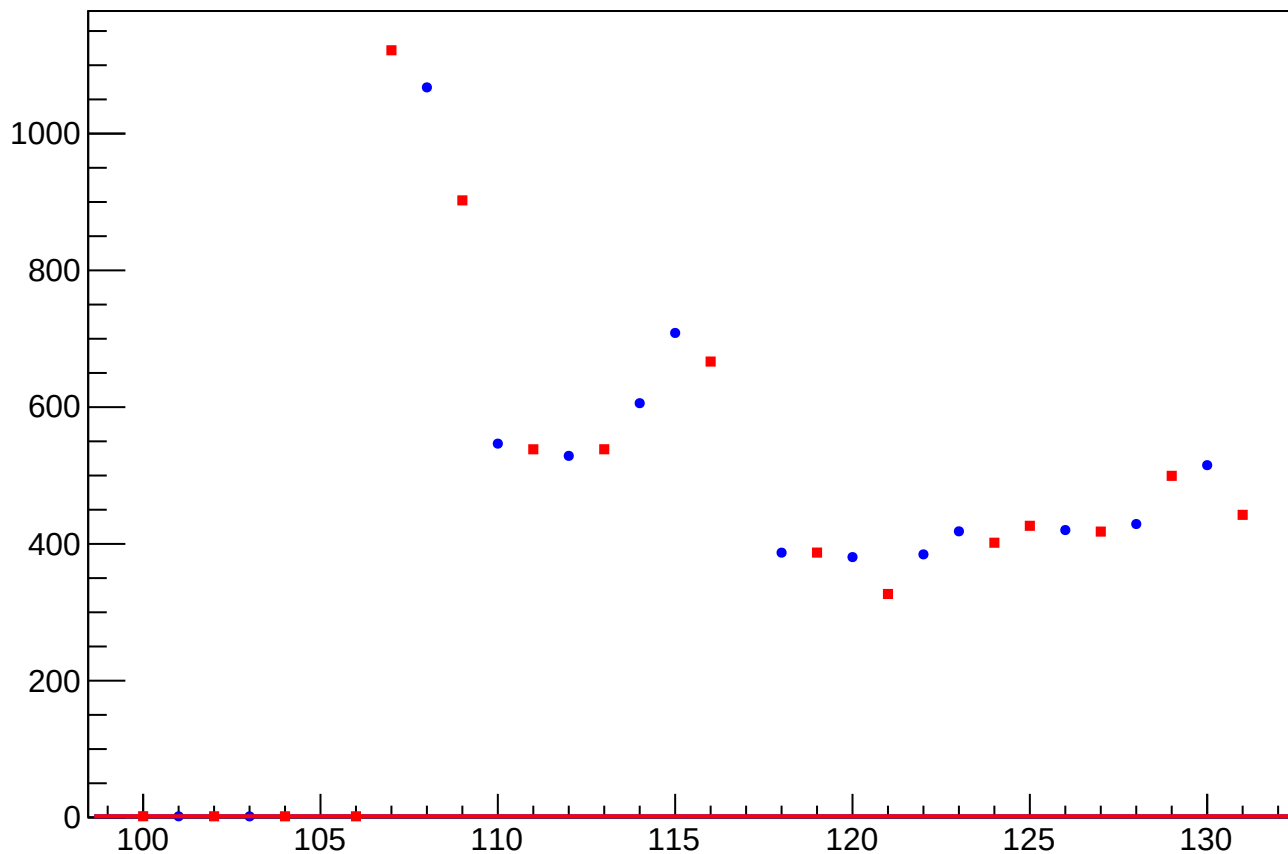
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 0.001 $\pm$ 0.001  $\chi^2$ /NDF: 21.9/29

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

# diff\_cav4dY\_rms vs Slug



Right In: 1.680+/-0.001  $\chi^2/\text{NDF}$ : 8175063.5/13

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

Right Out: 1.713+/-0.001  $\chi^2/\text{NDF}$ : 8535019.6/15

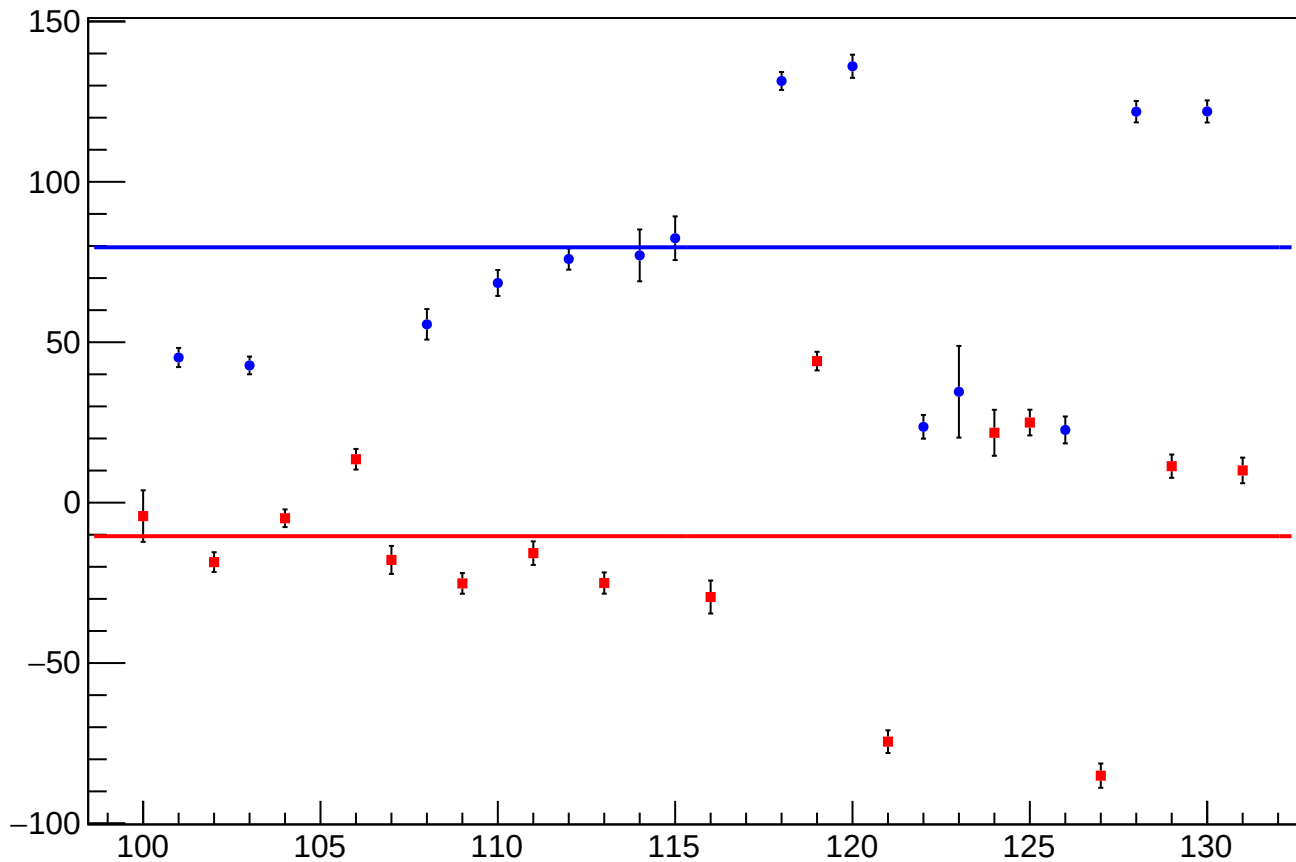
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1.697+/-0.001  $\chi^2/\text{NDF}$ : 16710359.9/29

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

# diff\_bpm0i01X\_mean vs Slug



Right In: 79.595+/-1.005  $\chi^2$ /NDF: 1668.1/13

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

Right Out: -10.464+/-0.917  $\chi^2$ /NDF: 1355.5/15

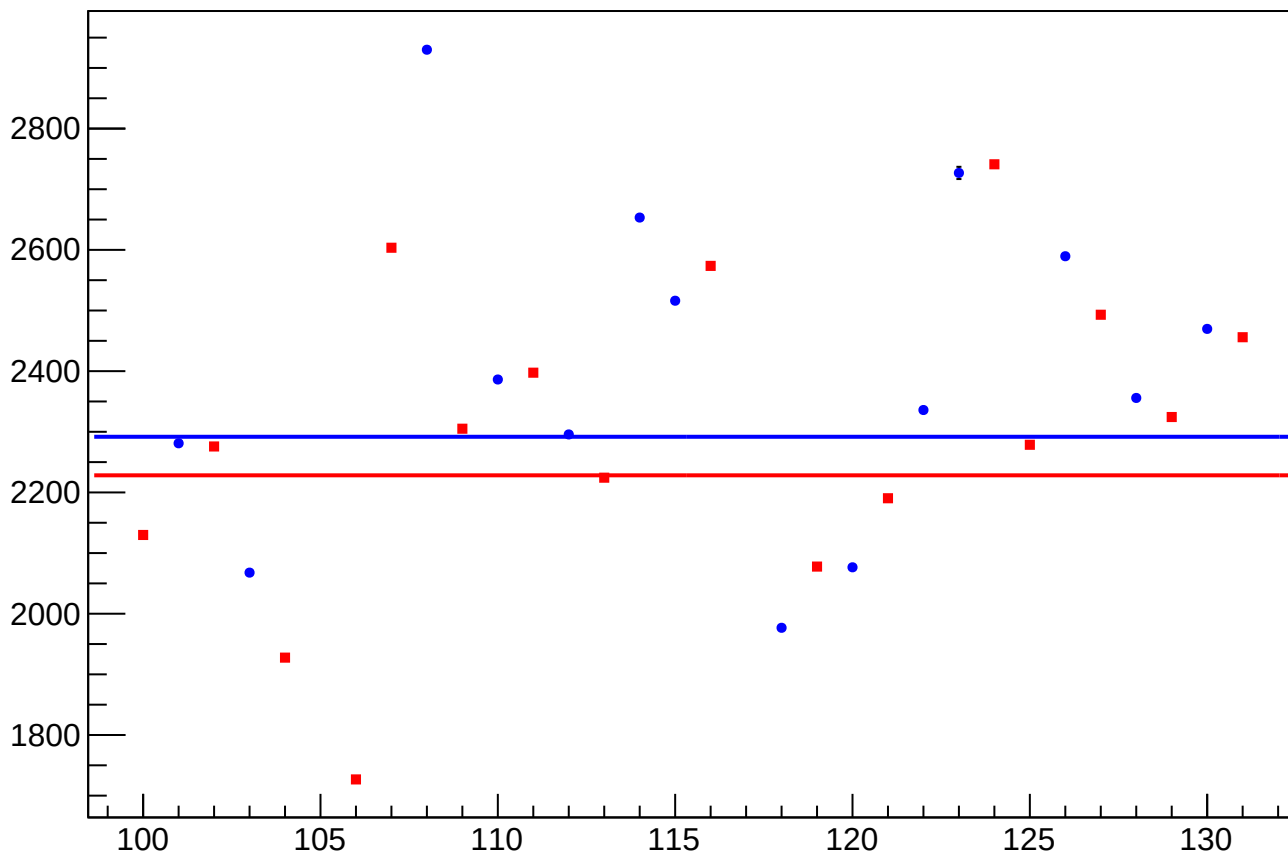
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: 30.434+/-0.677  $\chi^2$ /NDF: 7408.0/29

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

# diff\_bpm0i01X\_rms vs Slug



Right In: 2291.795 $\pm$ 0.711  $\chi^2$ /NDF: 107164.5/13

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

Right Out: 2228.223 $\pm$ 0.648  $\chi^2$ /NDF: 136484.9/15

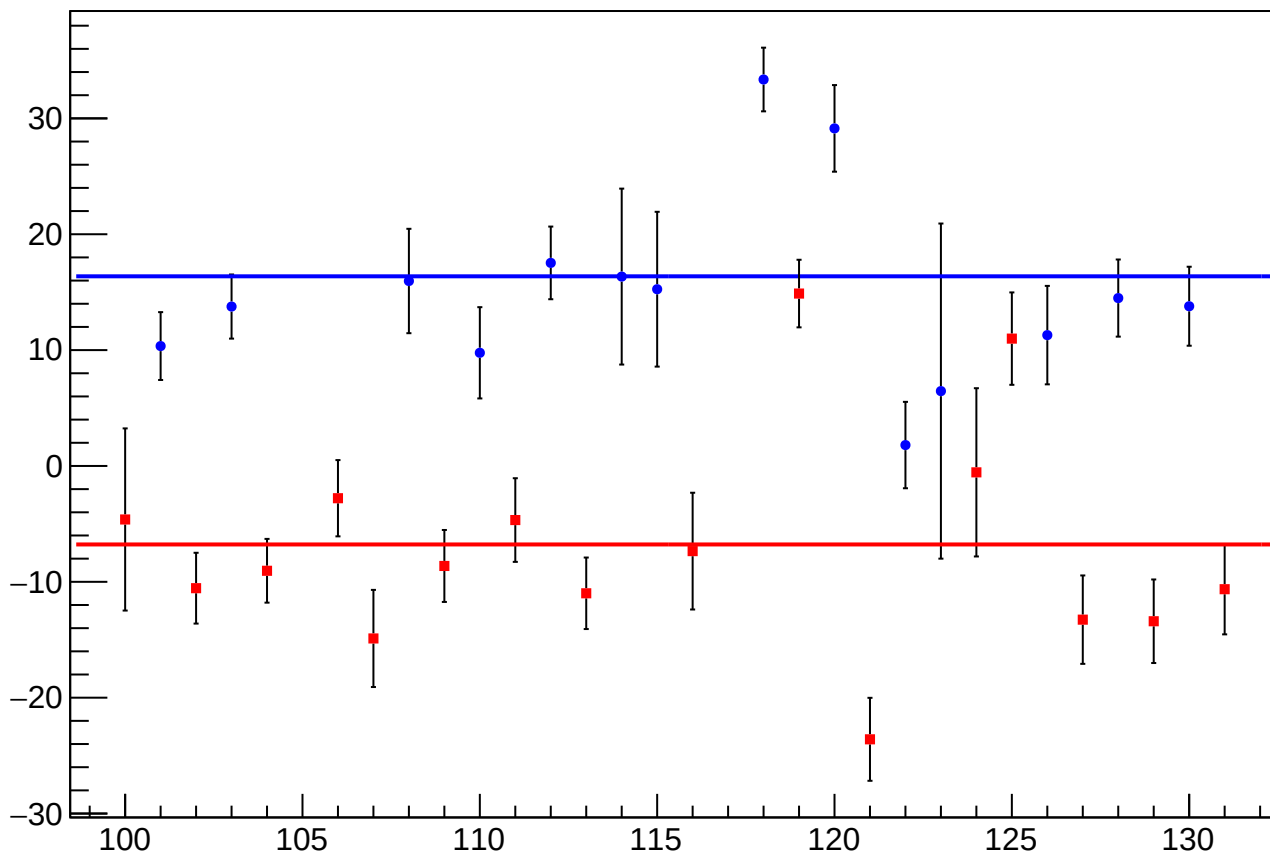
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 2257.092 $\pm$ 0.479  $\chi^2$ /NDF: 248018.8/29

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

# diff\_bpm0i01Y\_mean vs Slug



Right In: 16.369 $\pm$ 0.993  $\chi^2$ /NDF: 76.0/13

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

Right Out: -6.775 $\pm$ 0.906  $\chi^2$ /NDF: 115.1/15

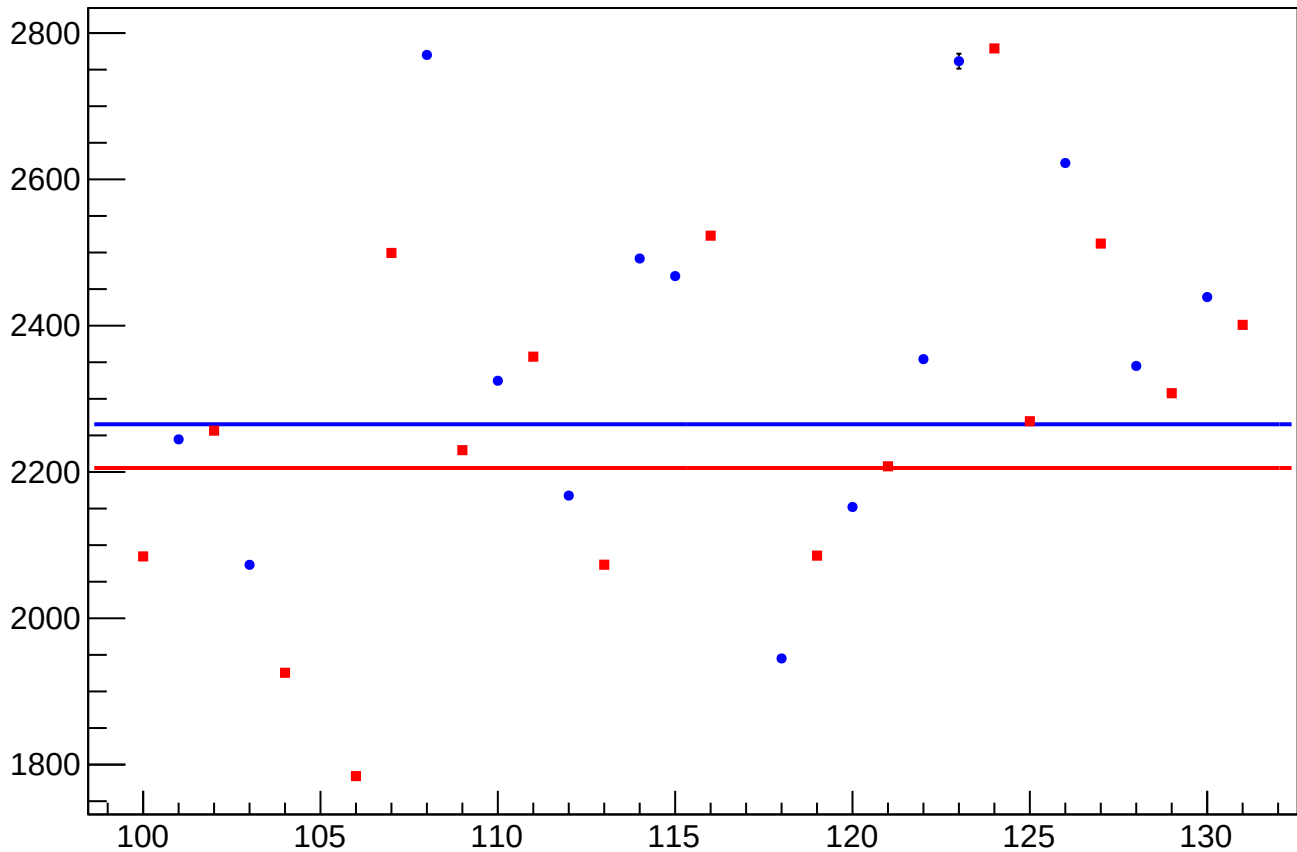
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 3.743 $\pm$ 0.669  $\chi^2$ /NDF: 487.7/29

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

# diff\_bpm0i01Y\_rms vs Slug



Right In: 2265.224+/-0.702  $\chi^2/\text{NDF}$ : 93827.1/13

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

Right Out: 2205.482+/-0.641  $\chi^2/\text{NDF}$ : 115550.7/15

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

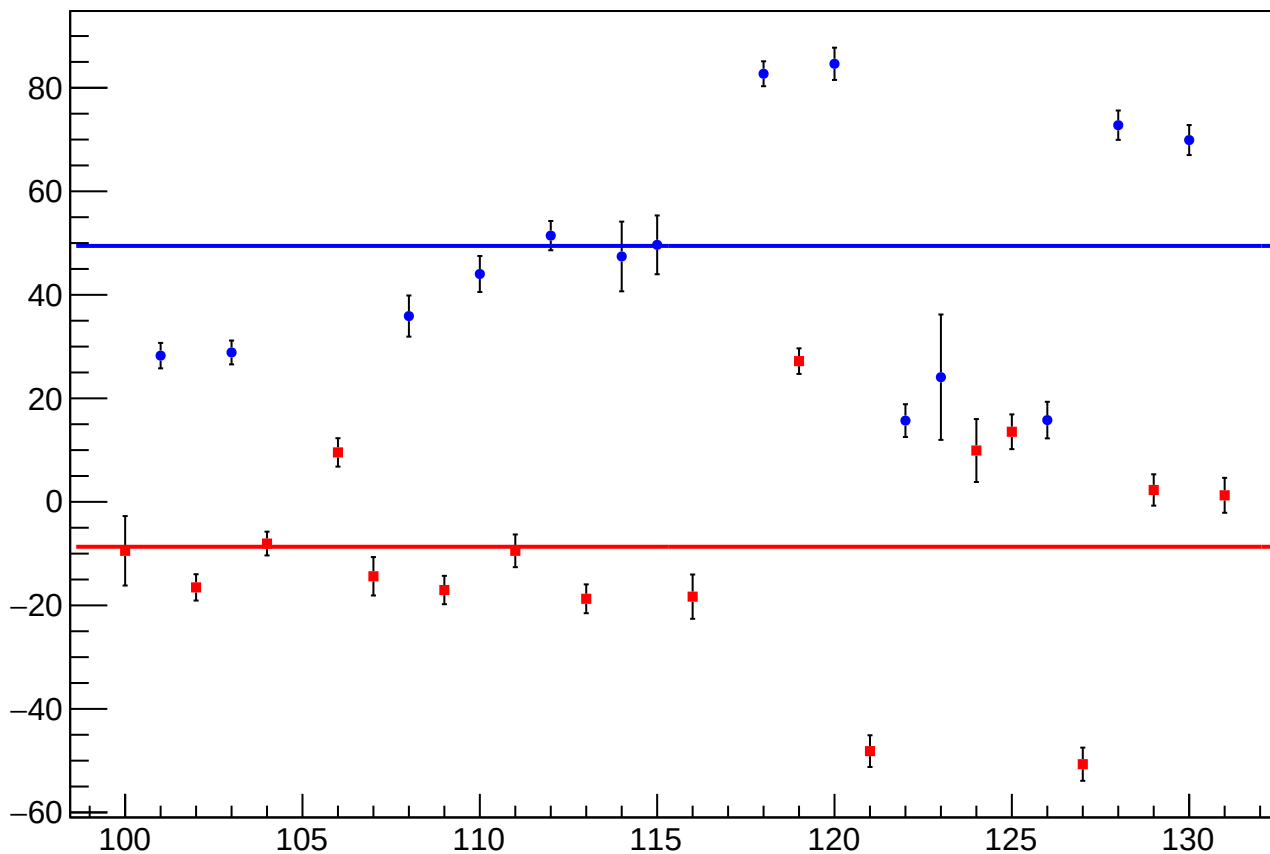
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2232.631+/-0.473  $\chi^2/\text{NDF}$ : 213329.9/29

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



# diff\_bpm0i01aX\_mean vs Slug



Right In: 49.451+/-0.850  $\chi^2/\text{NDF}$ : 813.8/13

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

Right Out: -8.674+/-0.774  $\chi^2/\text{NDF}$ : 706.6/15

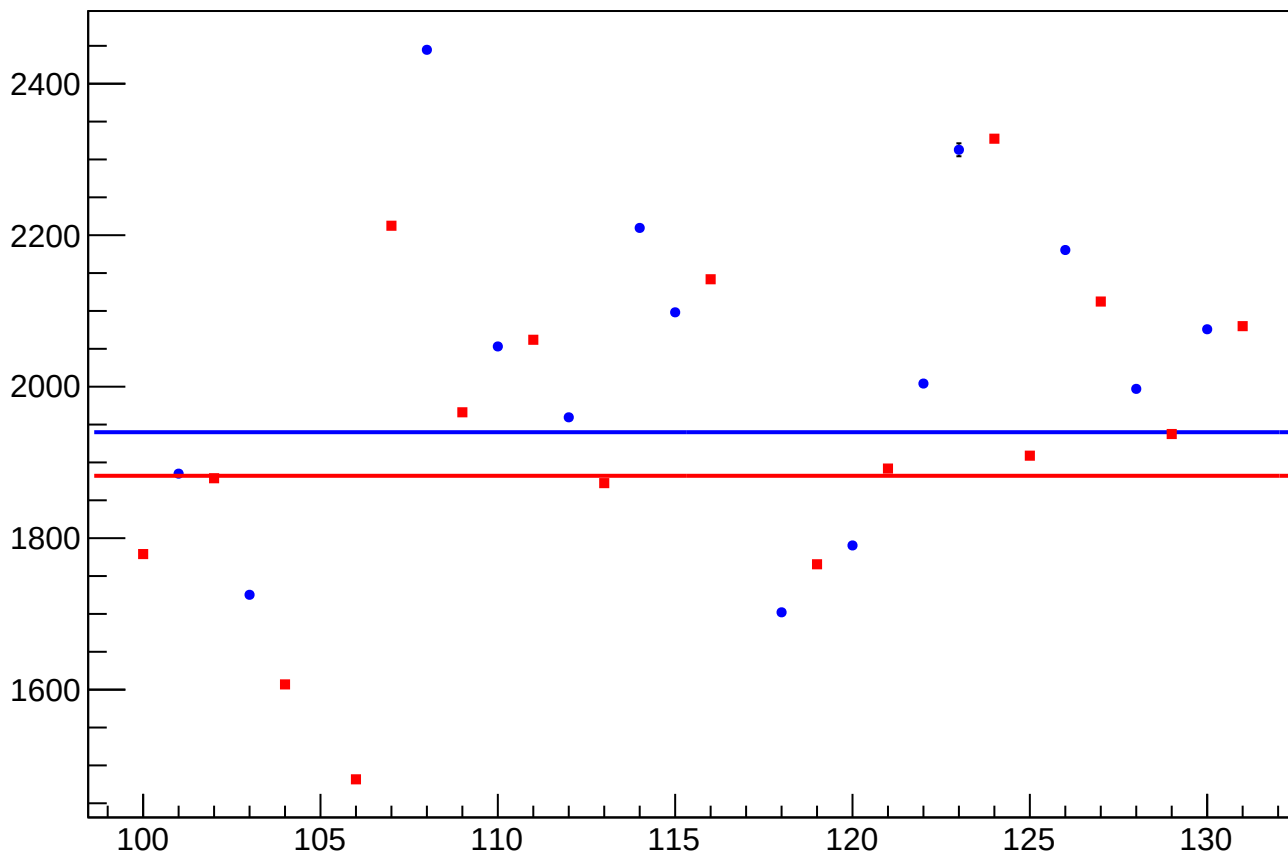
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 17.678+/-0.572  $\chi^2/\text{NDF}$ : 4076.1/29

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

# diff\_bpm0i01aX\_rms vs Slug



Right In: 1939.908 $\pm$ 0.601  $\chi^2$ /NDF: 98971.0/13

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

Right Out: 1882.357 $\pm$ 0.547  $\chi^2$ /NDF: 136480.4/15

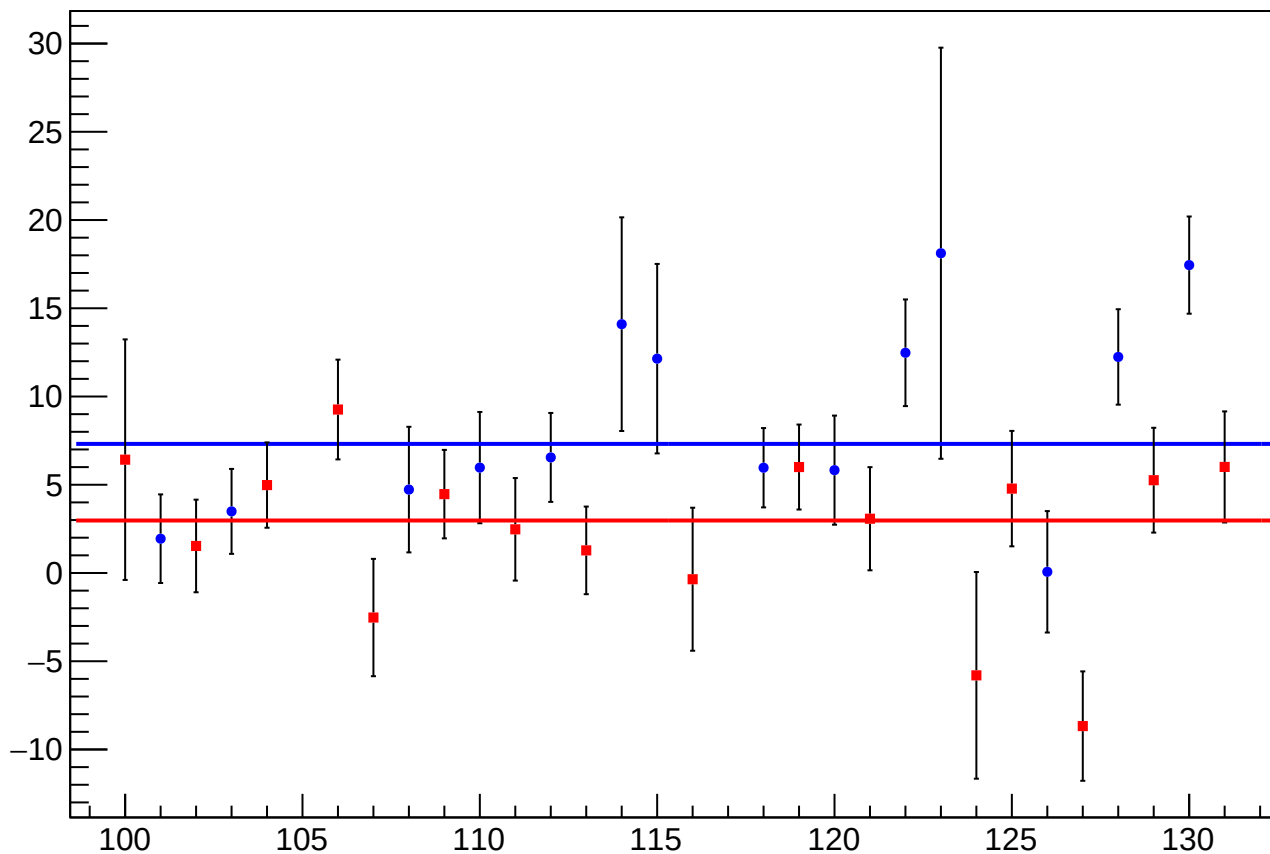
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1908.449 $\pm$ 0.405  $\chi^2$ /NDF: 240462.1/29

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

# diff\_bpm0i01aY\_mean vs Slug



Right In: 7.315+/-0.816  $\chi^2/\text{NDF}$ : 35.6/13

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

Right Out: 2.974+/-0.748  $\chi^2/\text{NDF}$ : 30.2/15

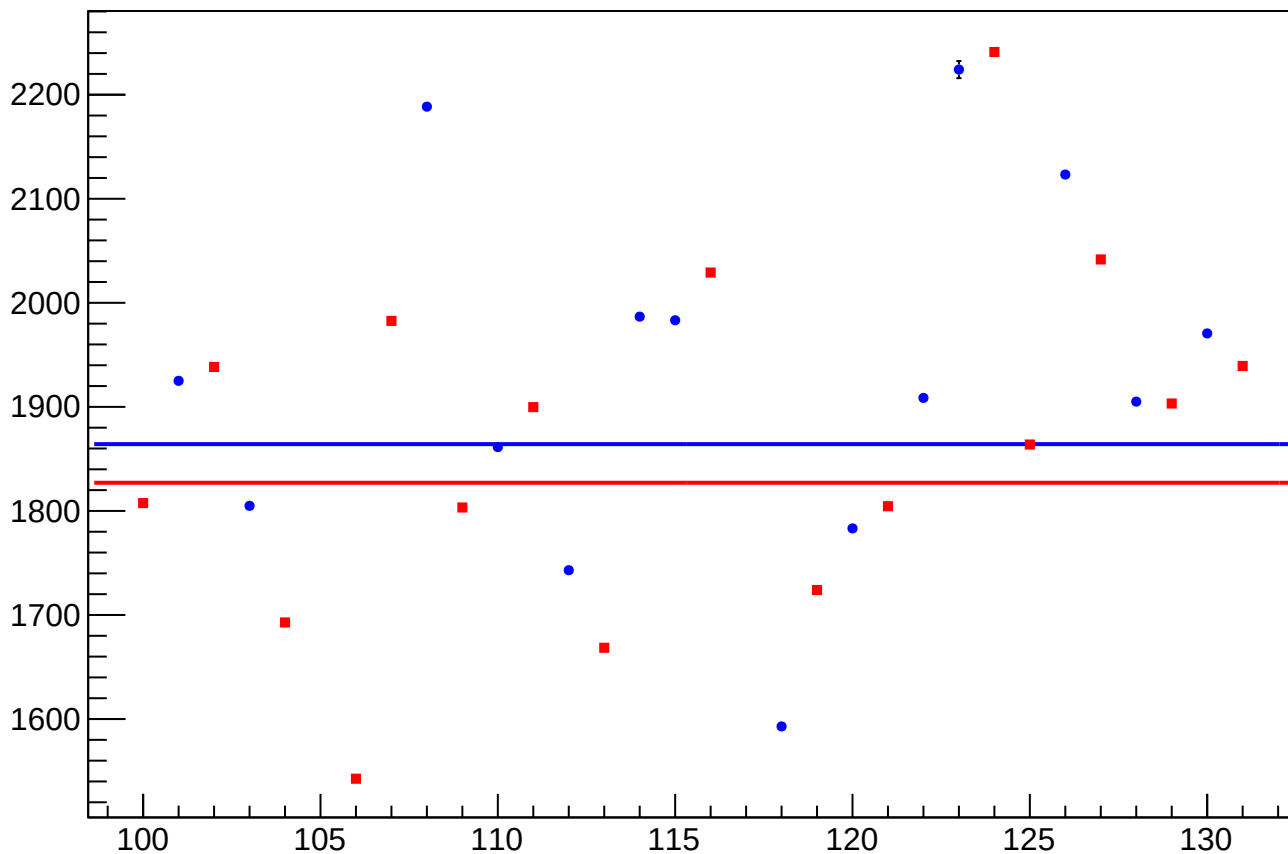
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 4.958+/-0.551  $\chi^2/\text{NDF}$ : 81.3/29

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

# diff\_bpm0i01aY\_rms vs Slug



Right In: 1864.193+/-0.577  $\chi^2/\text{NDF}$ : 73081.1/13

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

Right Out: 1827.080+/-0.529  $\chi^2/\text{NDF}$ : 76477.5/15

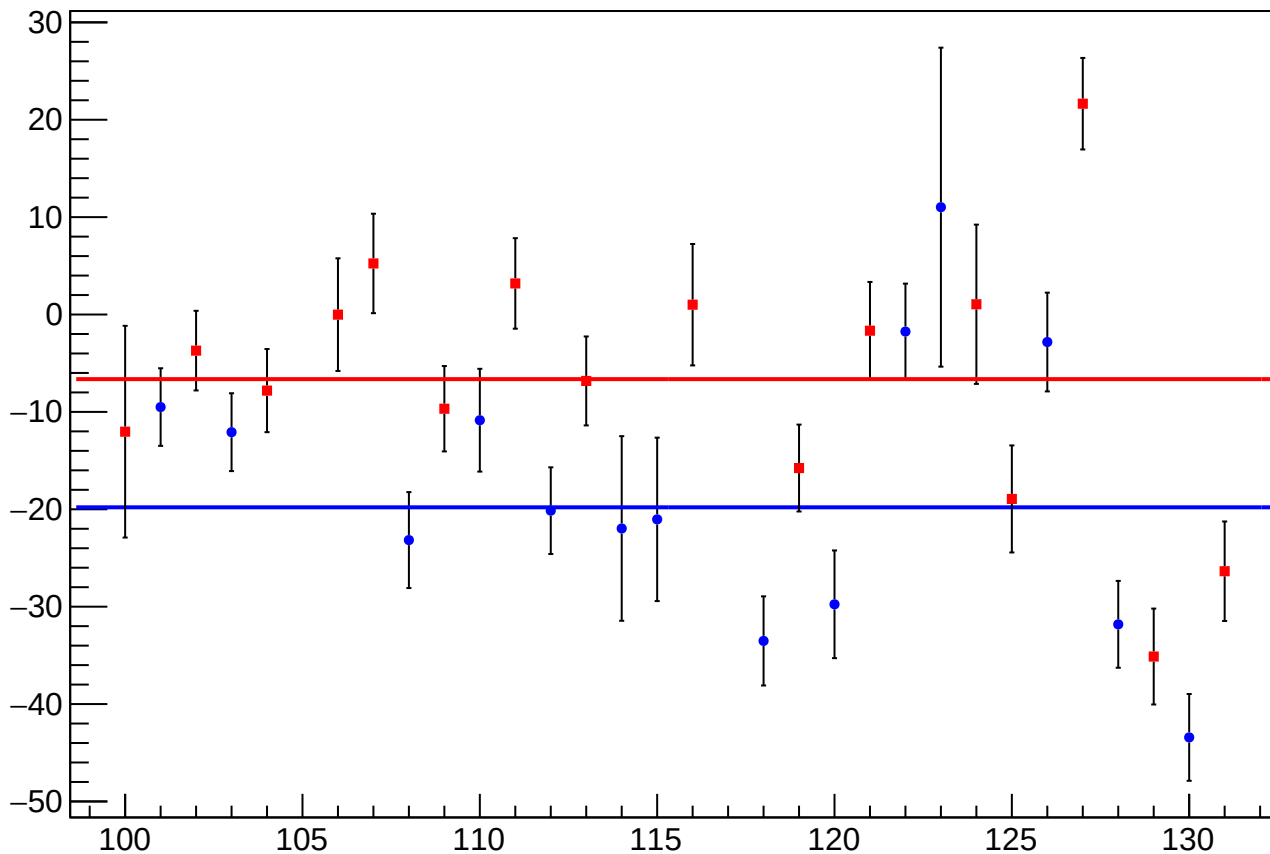
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1844.044+/-0.390  $\chi^2/\text{NDF}$ : 151806.5/29

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

# diff\_bpm0l01X\_mean vs Slug



Right In: -19.797 $\pm$ 1.356  $\chi^2$ /NDF: 89.6/13

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

Right Out: -6.634 $\pm$ 1.263  $\chi^2$ /NDF: 109.7/15

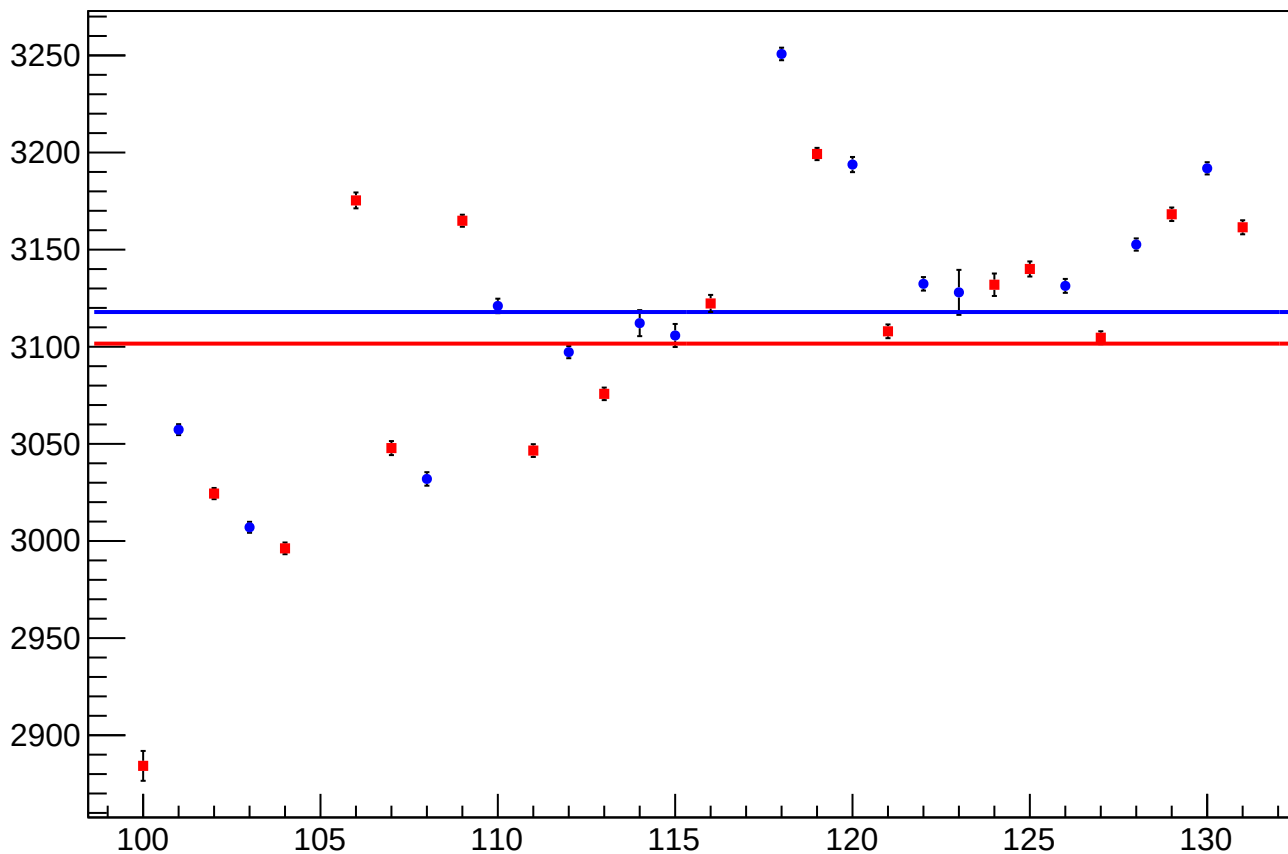
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -12.748 $\pm$ 0.924  $\chi^2$ /NDF: 249.7/29

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

# diff\_bpm0l01X\_rms vs Slug



Right In: 3117.881 $\pm$ 0.959  $\chi^2$ /NDF: 5425.3/13

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

Right Out: 3101.615 $\pm$ 0.893  $\chi^2$ /NDF: 5791.1/15

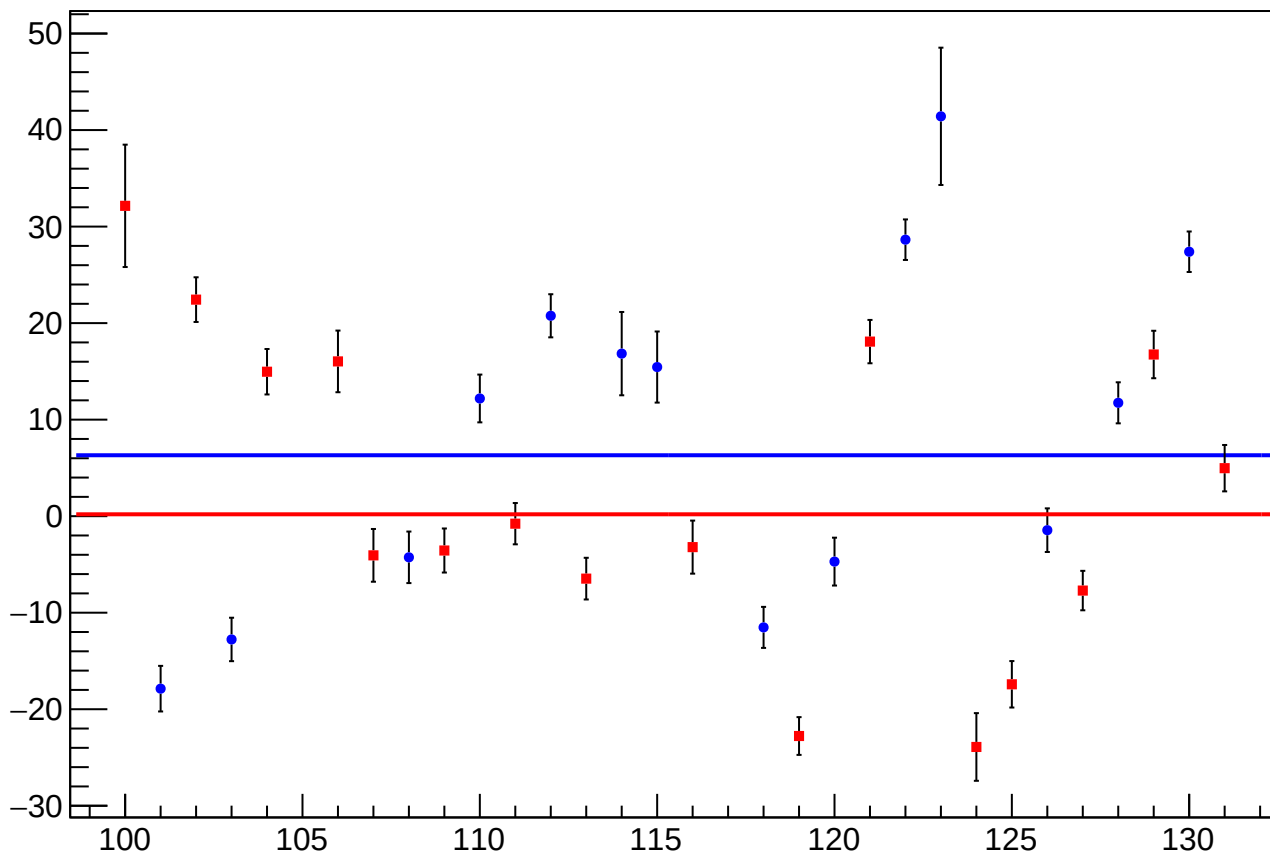
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 3109.171 $\pm$ 0.654  $\chi^2$ /NDF: 11370.4/29

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

# diff\_bpm0l01Y\_mean vs Slug



Right In: 6.312 $\pm$ 0.662  $\chi^2$ /NDF: 599.0/13

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

Right Out: 0.194 $\pm$ 0.612  $\chi^2$ /NDF: 564.6/15

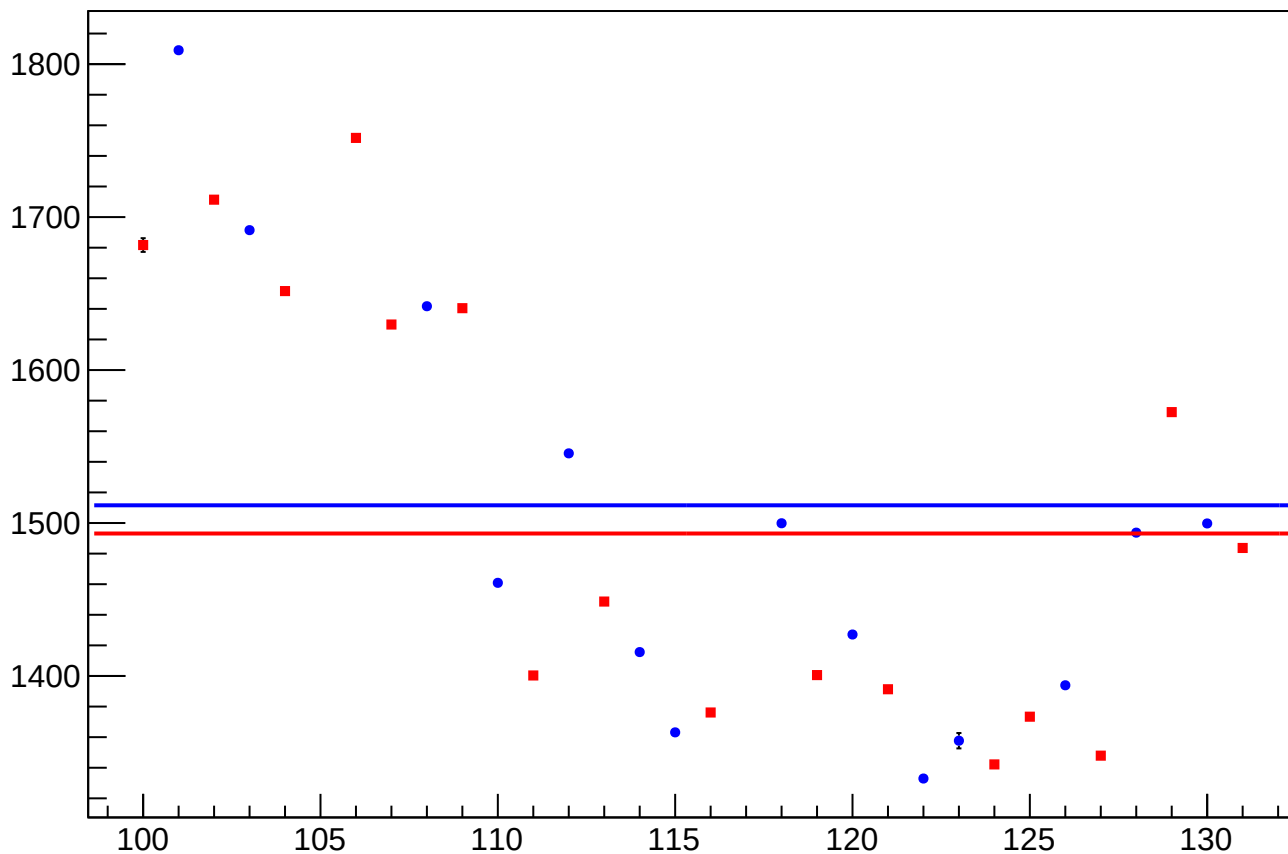
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 3.012 $\pm$ 0.449  $\chi^2$ /NDF: 1209.7/29

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

# diff\_bpm0l01Y\_rms vs Slug



Right In: 1511.577 $\pm$ 0.468  $\chi^2$ /NDF: 78234.7/13

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

Right Out: 1493.141 $\pm$ 0.432  $\chi^2$ /NDF: 92777.8/15

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

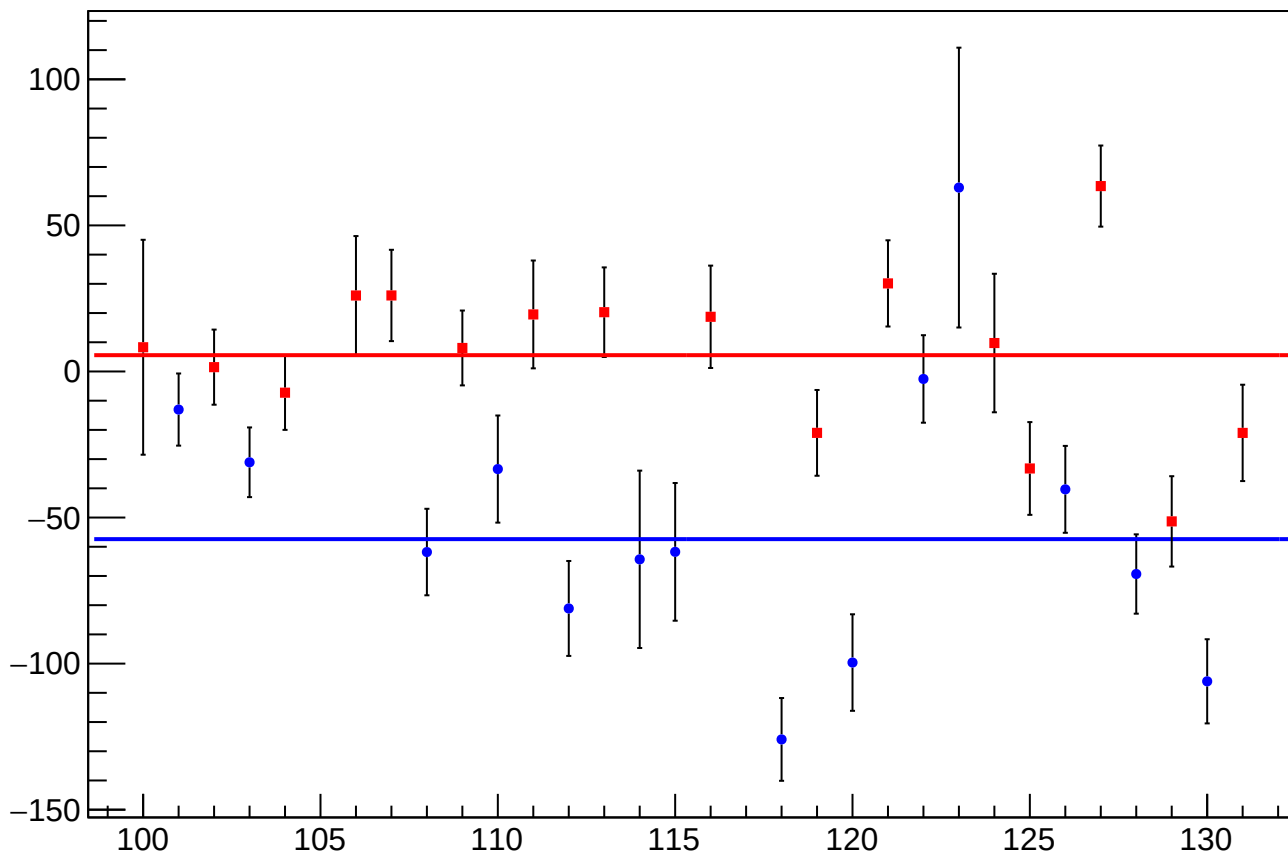
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1501.633 $\pm$ 0.318  $\chi^2$ /NDF: 171849.7/29

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



# diff\_bpm0l02X\_mean vs Slug



Right In: -57.391 $\pm$ 4.222  $\chi^2$ /NDF: 85.0/13

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

Right Out: 5.579 $\pm$ 3.952  $\chi^2$ /NDF: 51.5/15

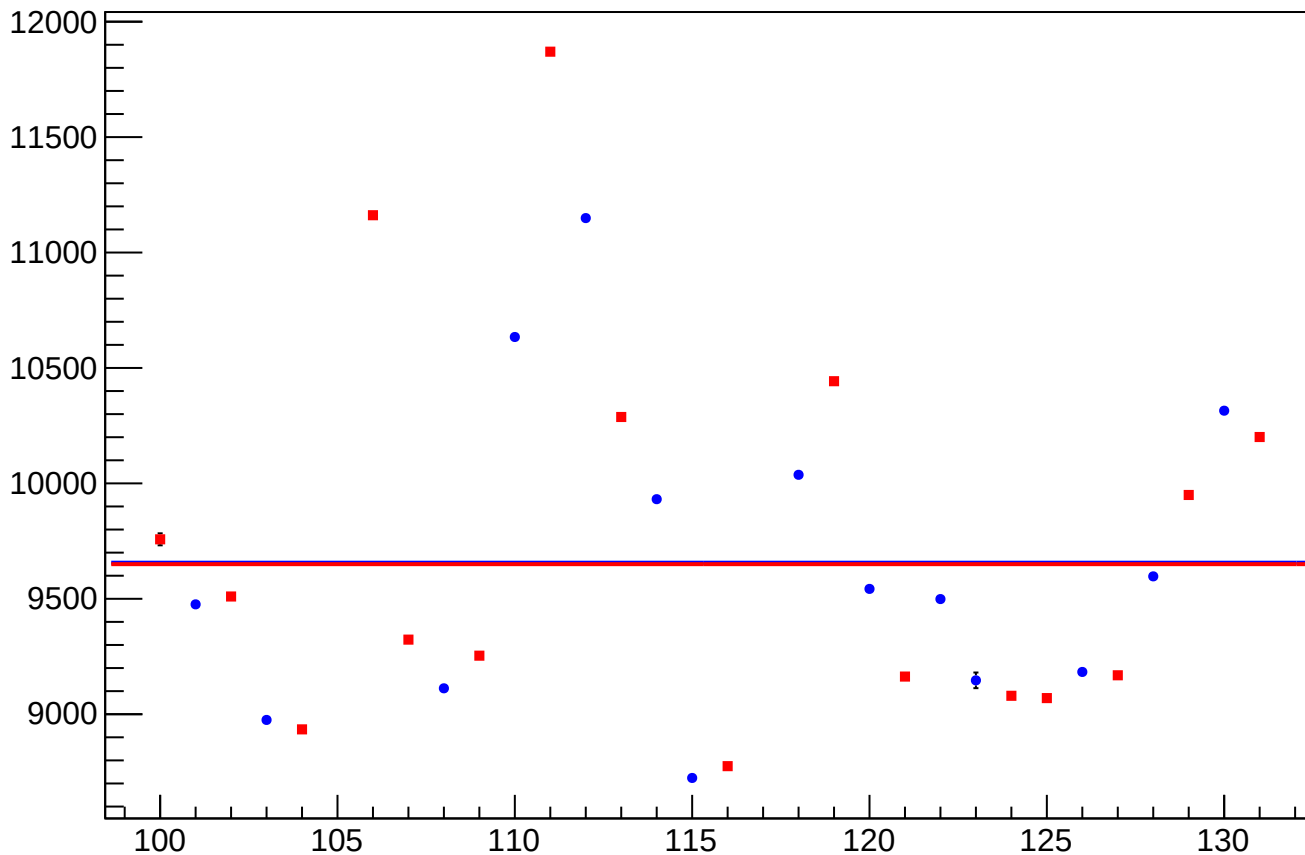
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -23.826 $\pm$ 2.885  $\chi^2$ /NDF: 255.0/29

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

# diff\_bpm0l02X\_rms vs Slug



Right In: 9656.403+/-2.985  $\chi^2/\text{NDF}$ : 43746.4/13

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

Right Out: 9650.029+/-2.794  $\chi^2/\text{NDF}$ : 75016.0/15

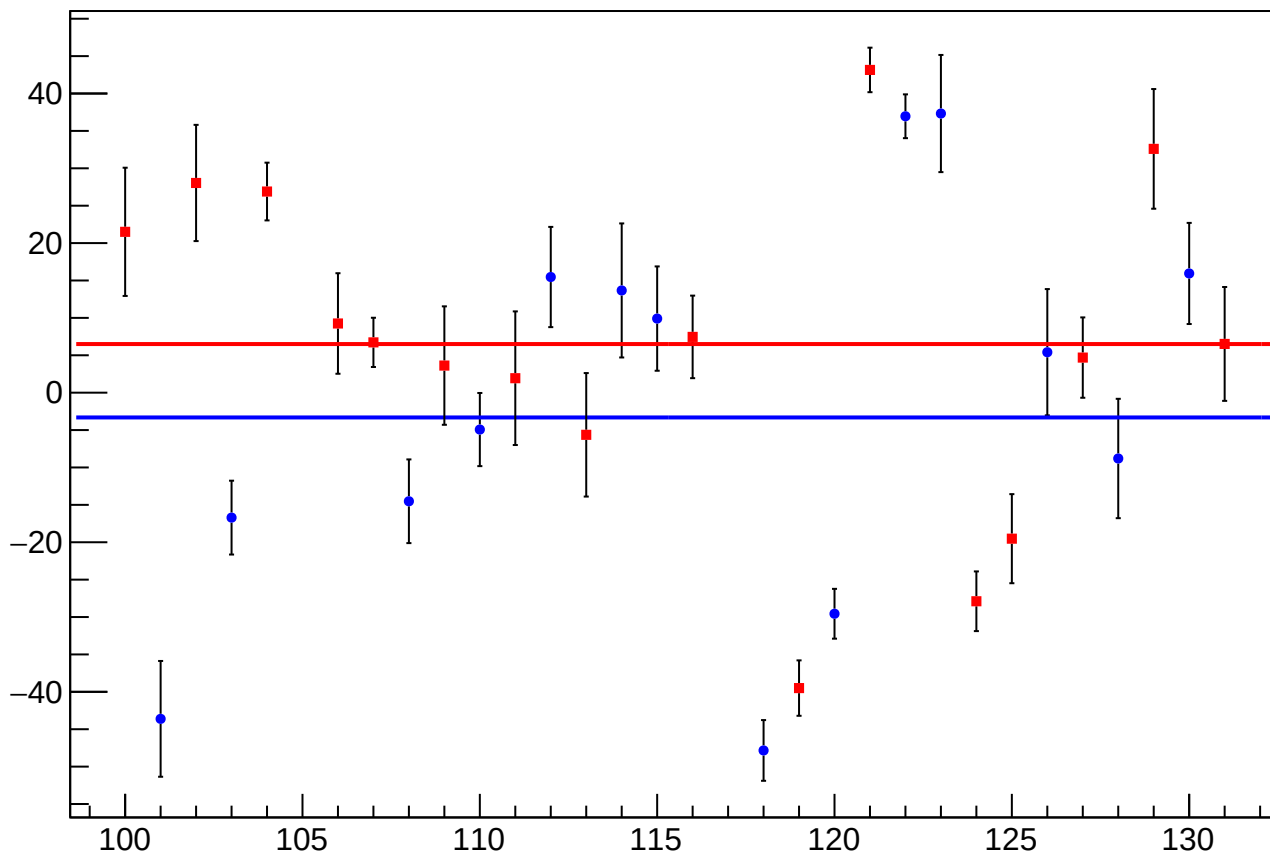
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 9653.005+/-2.040  $\chi^2/\text{NDF}$ : 118764.8/29

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

# diff\_bpm0l02Y\_mean vs Slug



Right In: -3.313+/-1.384  $\chi^2/\text{NDF}$ : 461.7/13

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

Right Out: 6.501+/-1.258  $\chi^2/\text{NDF}$ : 451.3/15

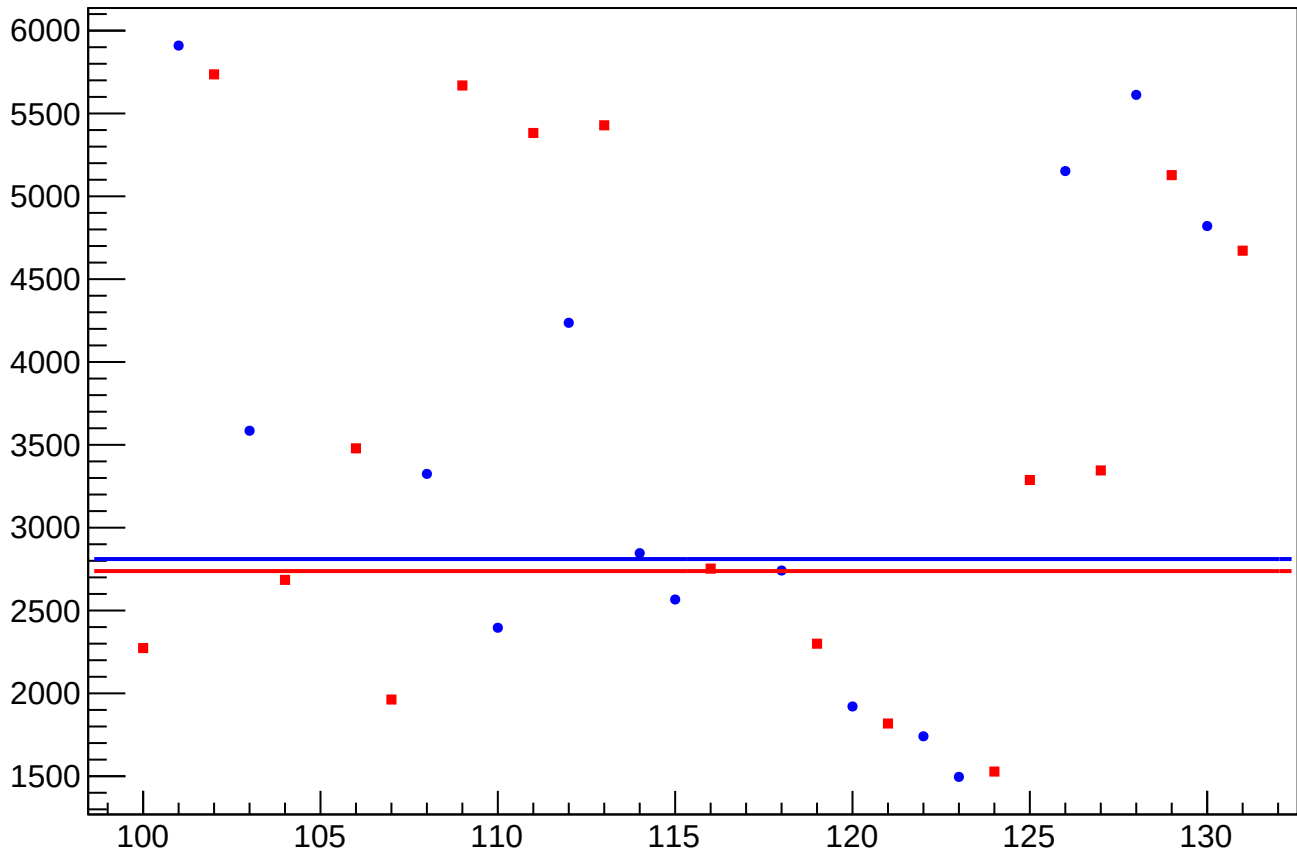
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2.061+/-0.931  $\chi^2/\text{NDF}$ : 940.6/29

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

# diff\_bpm0l02Y\_rms vs Slug



Right In: 2810.662 $\pm$ 0.979  $\chi^2$ /NDF: 1537820.4/13

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

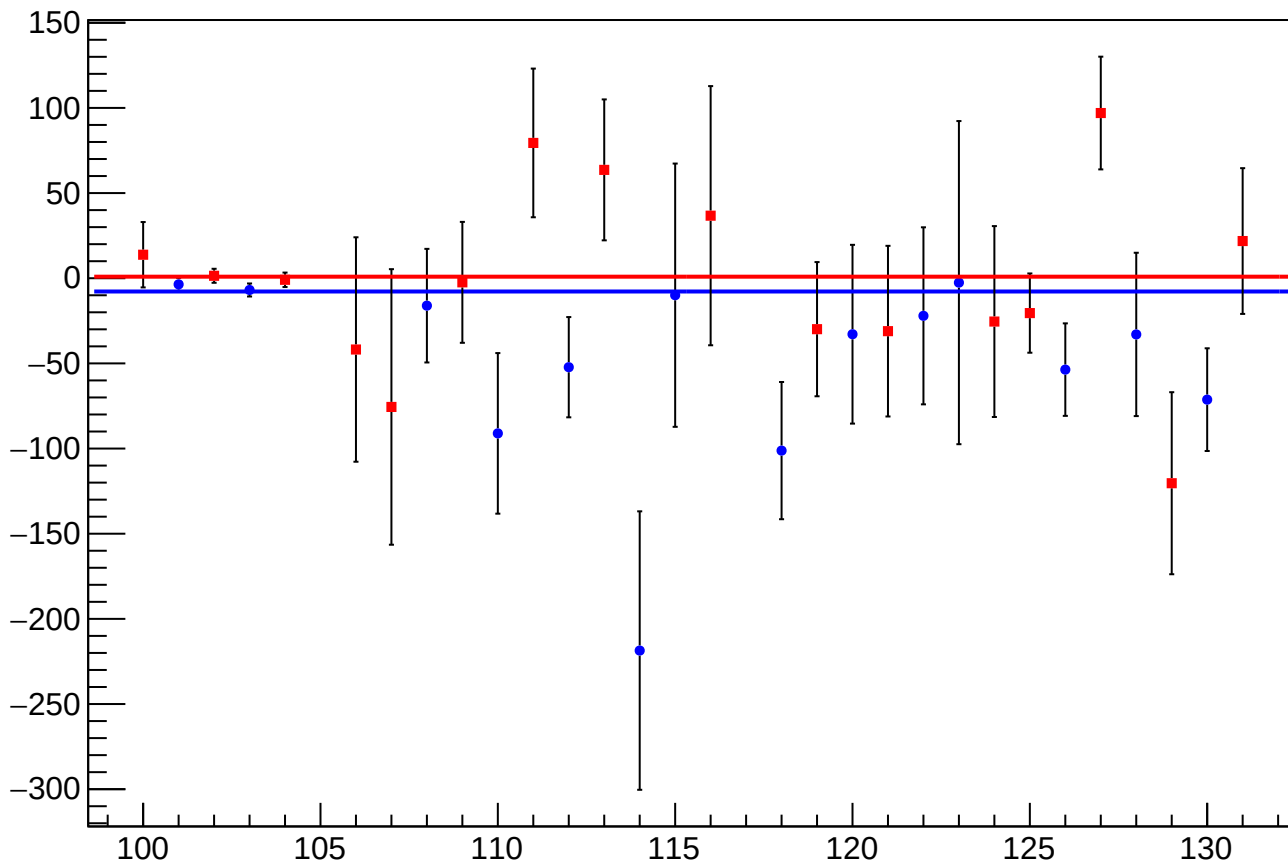
Right Out: 2737.970 $\pm$ 0.890  $\chi^2$ /NDF: 1853872.2/15

All: 2770.858 $\pm$ 0.658  $\chi^2$ /NDF: 3394713.9/29

- 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\_bpm0l03X\_mean vs Slug



Right In:  $-7.786 \pm 2.646$   $\chi^2/\text{NDF}$ : 26.6/13

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

Right Out:  $0.913 \pm 2.829$   $\chi^2/\text{NDF}$ : 23.6/15

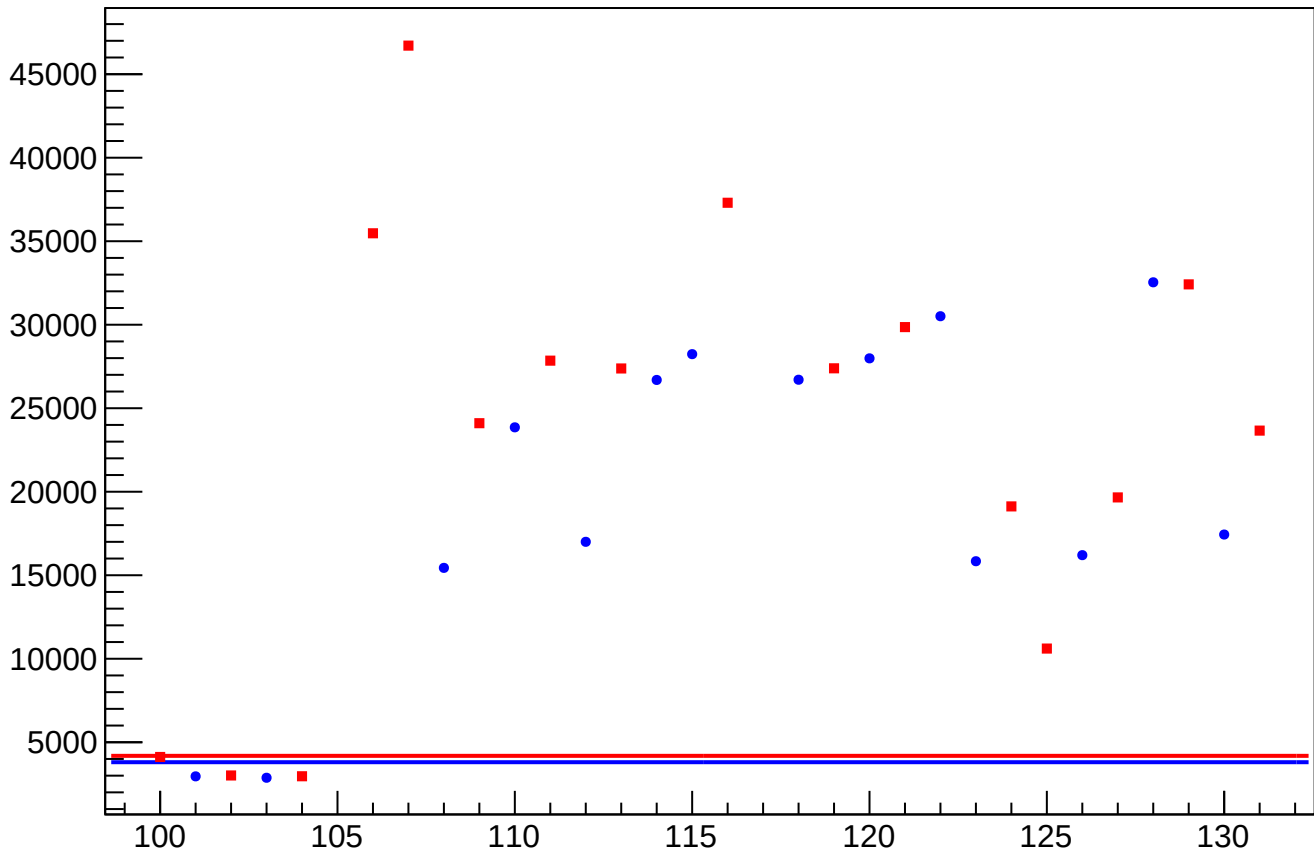
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-3.728 \pm 1.933$   $\chi^2/\text{NDF}$ : 55.3/29

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

# diff\_bpm0l03X\_rms vs Slug



Right In: 3805.165+/-1.871  $\chi^2$ /NDF: 4754220.4/13

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

Right Out: 4186.505+/-2.001  $\chi^2$ /NDF: 6481196.0/15

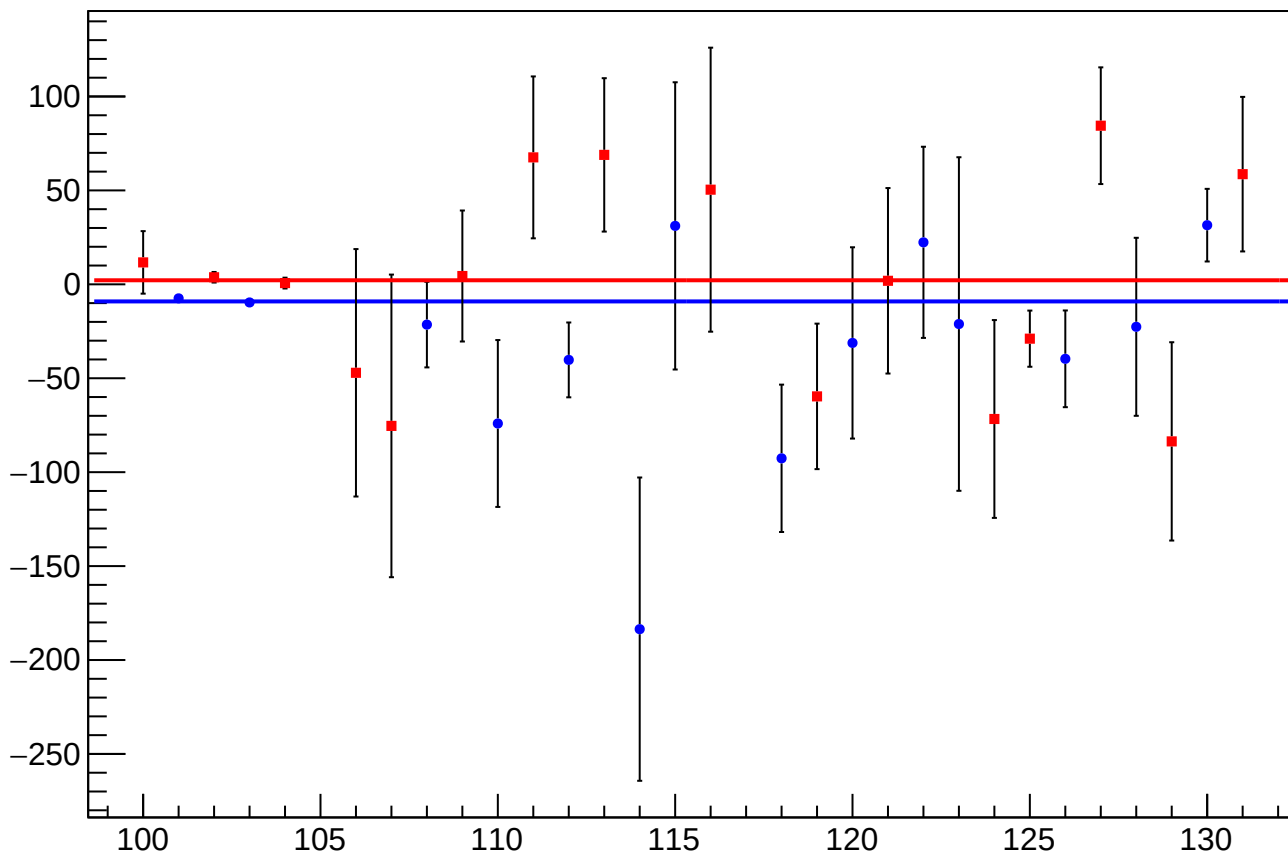
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

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

All: 3983.071+/-1.367  $\chi^2$ /NDF: 11254797.7/2

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

# diff\_bpm0l03Y\_mean vs Slug



Right In:  $-9.099 \pm 1.821$   $\chi^2/\text{NDF}$ : 21.3/13

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

Right Out:  $2.157 \pm 1.958$   $\chi^2/\text{NDF}$ : 28.2/15

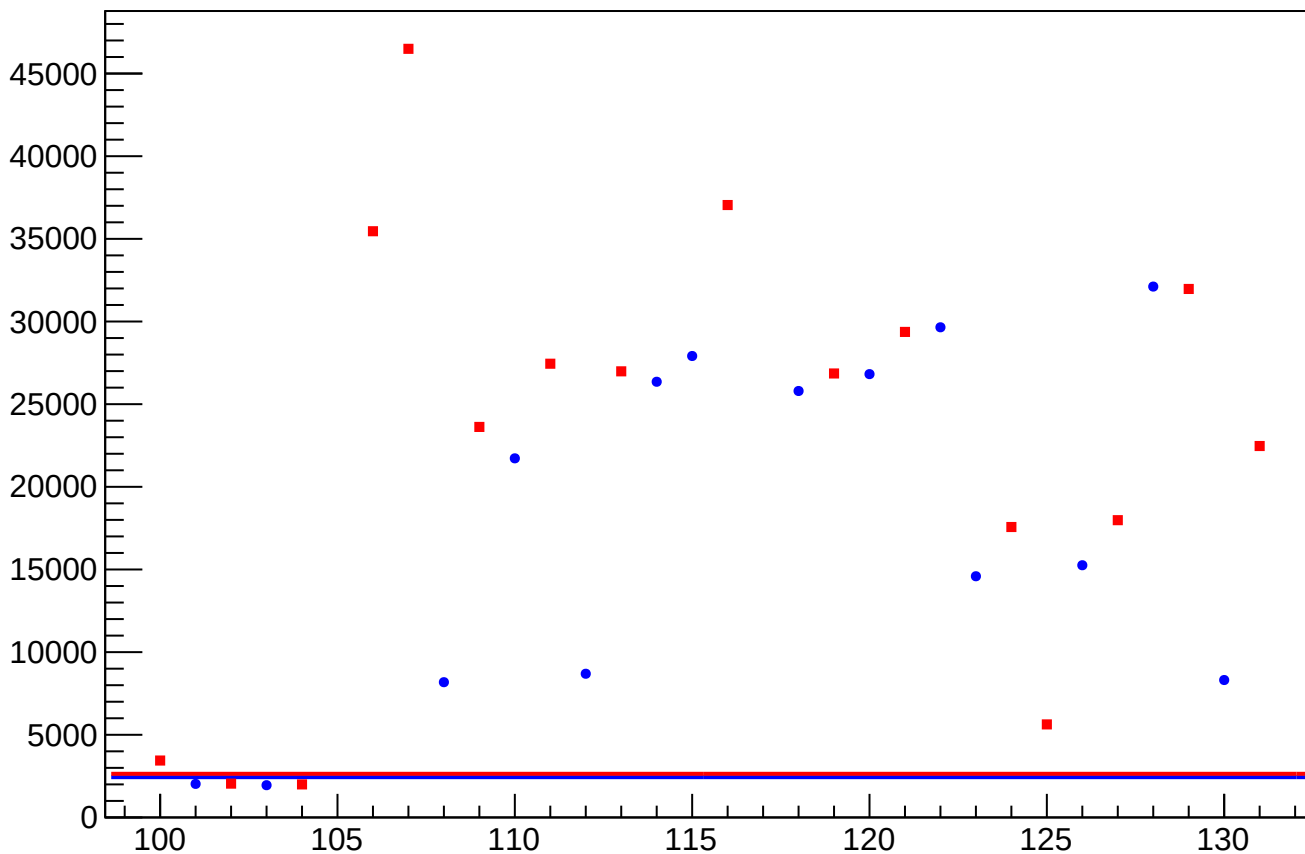
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-3.880 \pm 1.333$   $\chi^2/\text{NDF}$ : 67.2/29

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

# diff\_bpm0l03Y\_rms vs Slug



Right In: 2436.940+/-1.288  $\chi^2/\text{NDF}$ : 4458487.2/13

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

Right Out: 2640.951+/-1.385  $\chi^2/\text{NDF}$ : 6973705.0/15

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

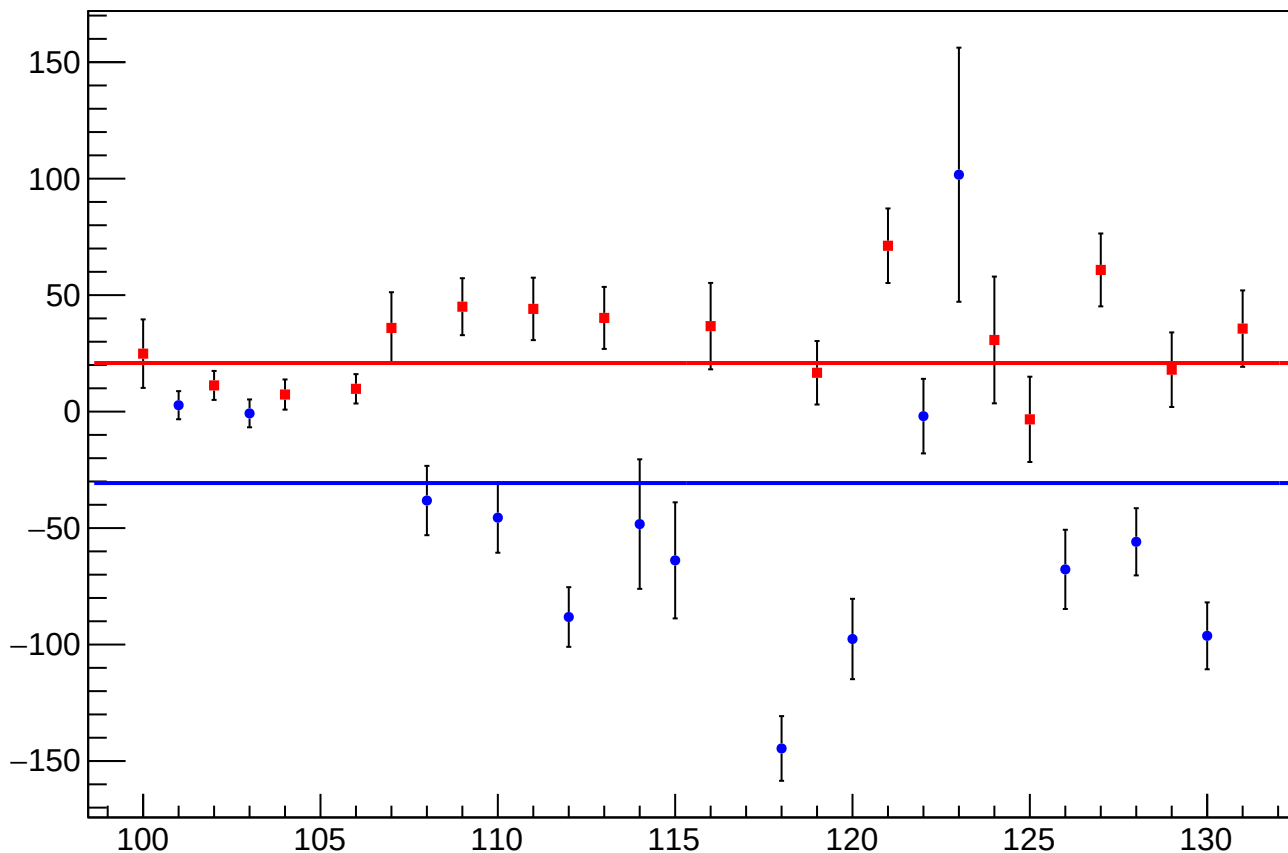
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2531.539+/-0.943  $\chi^2/\text{NDF}$ : 11443833.4/2

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



# diff\_bpm0l04X\_mean vs Slug



Right In:  $-30.667 \pm 3.174$   $\chi^2/\text{NDF}$ : 199.5/13

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

Right Out:  $20.862 \pm 2.774$   $\chi^2/\text{NDF}$ : 39.9/15

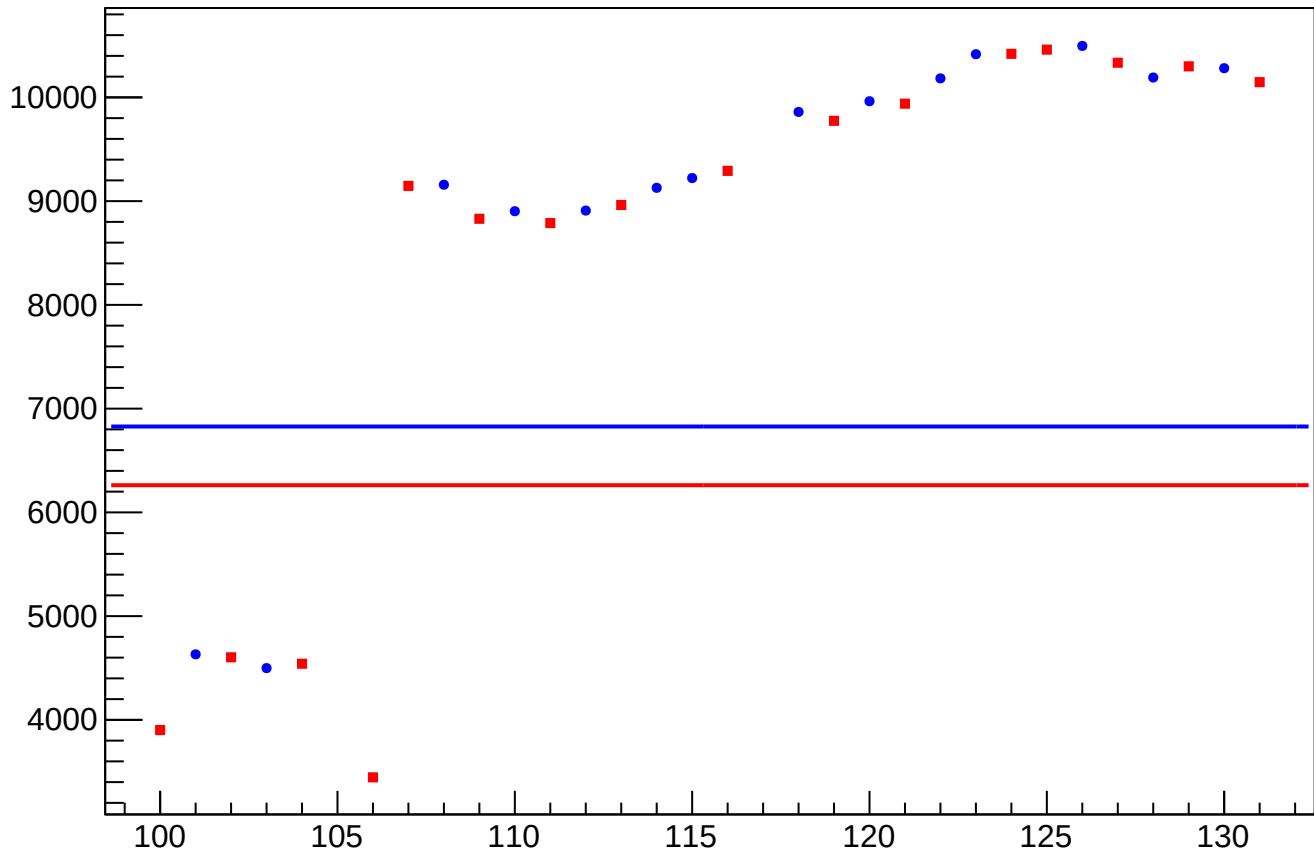
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-1.456 \pm 2.089$   $\chi^2/\text{NDF}$ : 388.8/29

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

# diff\_bpm0l04X\_rms vs Slug



Right In: 6827.620+/-2.244  $\chi^2/\text{NDF}$ : 1316117.5/13

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

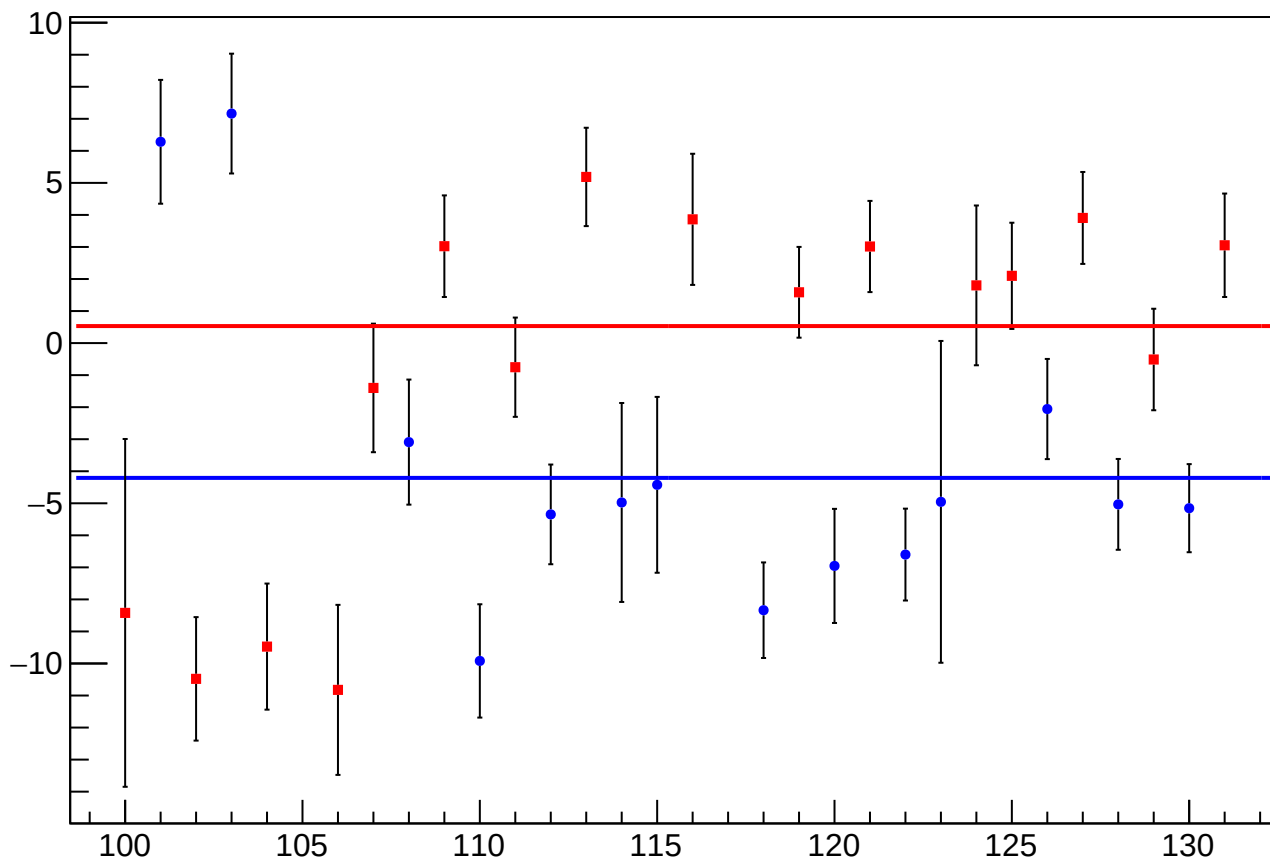
Right Out: 6262.090+/-1.962  $\chi^2/\text{NDF}$ : 1865912.5/15

All: 6507.029+/-1.477  $\chi^2/\text{NDF}$ : 3218025.9/29

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

# diff\_bpm0l04Y\_mean vs Slug



Right In: -4.207 +/- 0.471  $\chi^2/\text{NDF}$ : 93.4/13

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

Right Out: 0.531 +/- 0.438  $\chi^2/\text{NDF}$ : 108.6/15

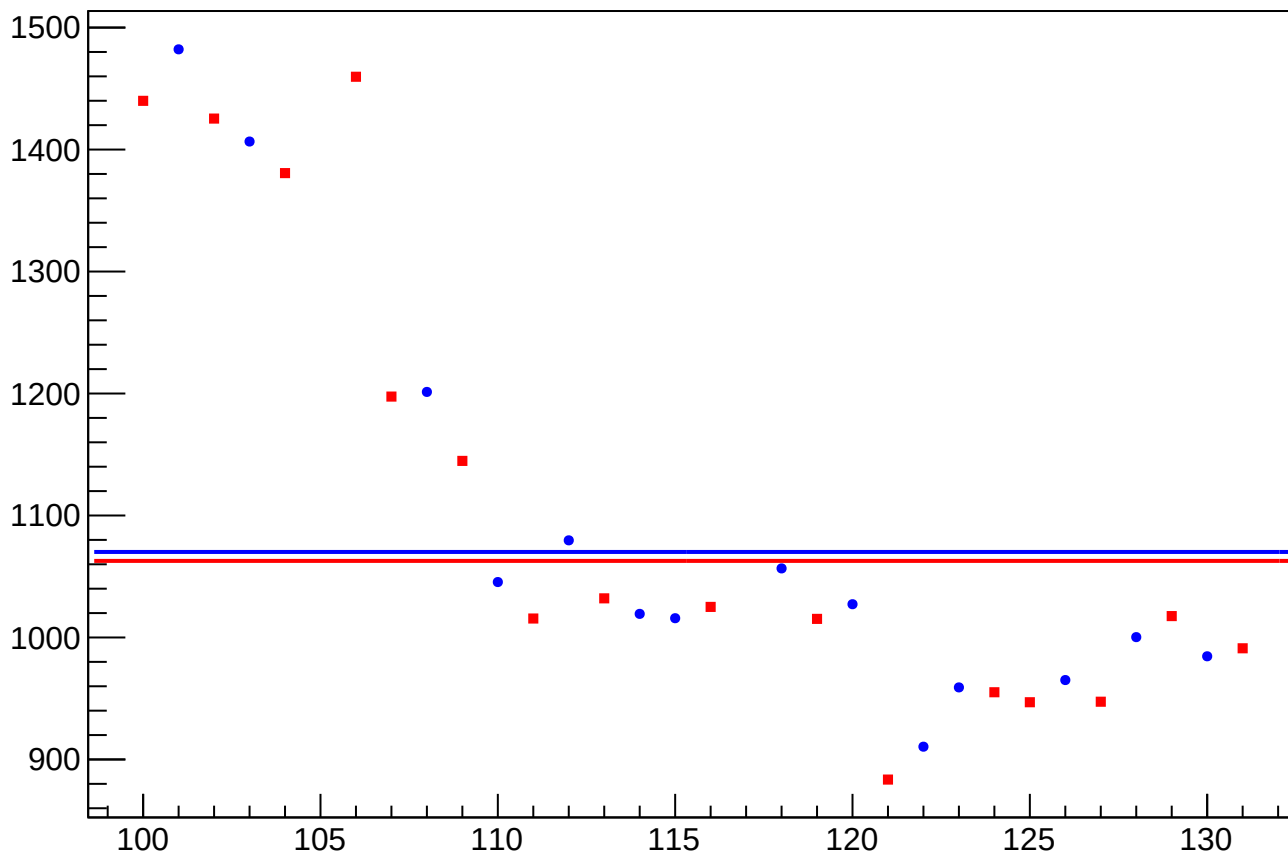
Left In: 0.000 +/- 0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -1.667 +/- 0.321  $\chi^2/\text{NDF}$ : 256.3/29

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

# diff\_bpm0l04Y\_rms vs Slug



Right In: 1070.116 $\pm$ 0.333  $\chi^2$ /NDF: 215250.8/13

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

Right Out: 1062.778 $\pm$ 0.310  $\chi^2$ /NDF: 261145.8/15

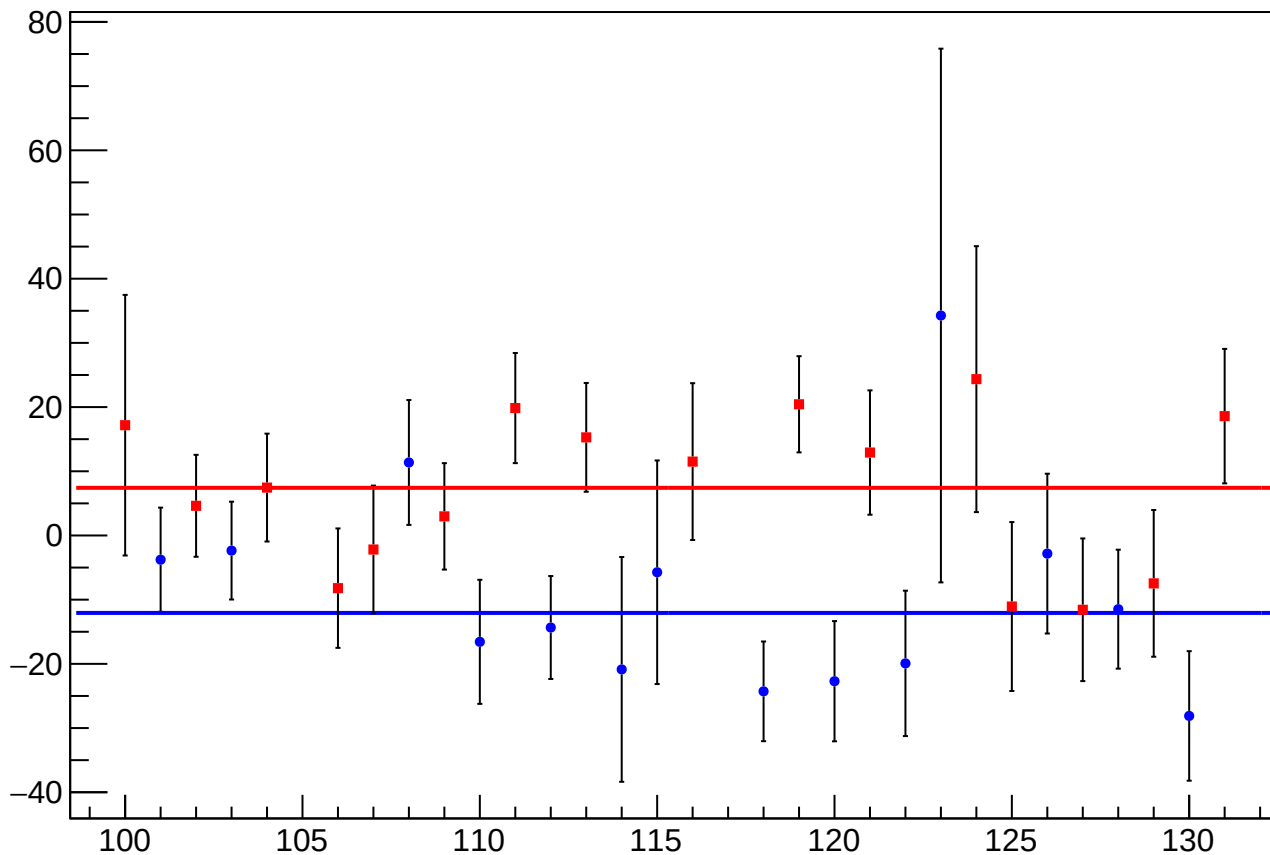
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1066.183 $\pm$ 0.227  $\chi^2$ /NDF: 476657.1/29

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

# diff\_bpm0l05X\_mean vs Slug



Right In:  $-12.065 \pm 2.672$   $\chi^2/\text{NDF}$ : 17.7/13

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

Right Out:  $7.423 \pm 2.467$   $\chi^2/\text{NDF}$ : 19.2/15

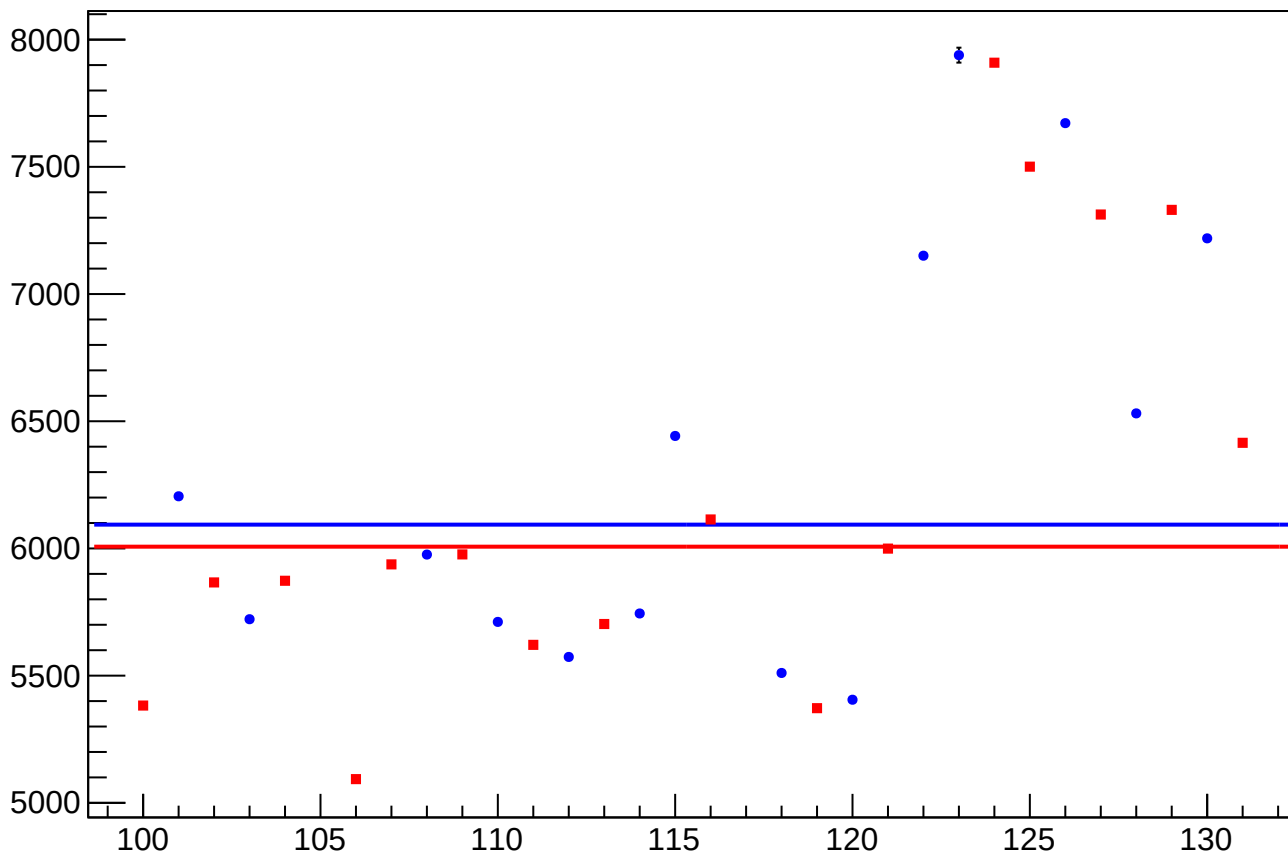
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-1.546 \pm 1.812$   $\chi^2/\text{NDF}$ : 65.7/29

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

# diff\_bpm0l05X\_rms vs Slug



Right In: 6093.585 $\pm$ 1.889  $\chi^2$ /NDF: 123521.3/13

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

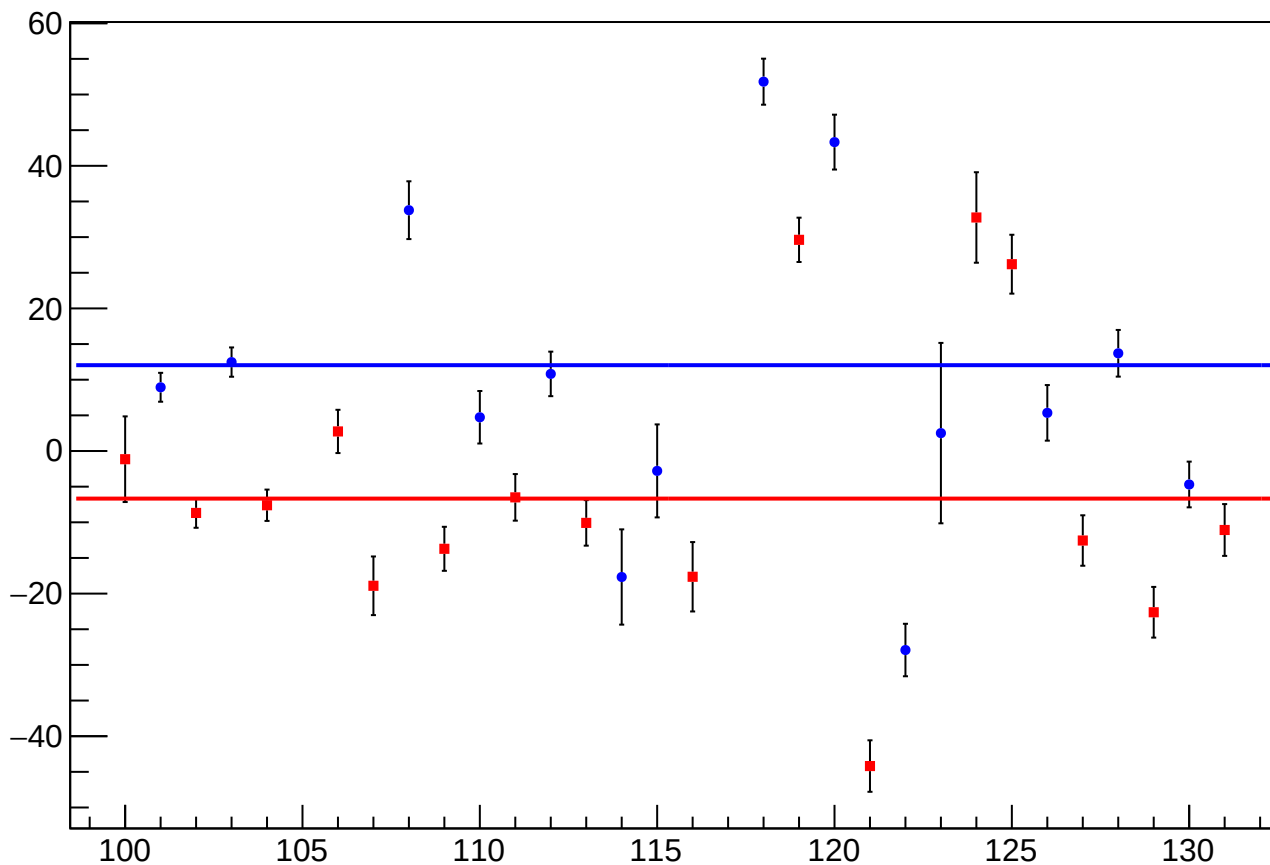
Right Out: 6006.972 $\pm$ 1.744  $\chi^2$ /NDF: 143718.6/15

All: 6046.835 $\pm$ 1.282  $\chi^2$ /NDF: 268374.5/29

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

# diff\_bpm0l05Y\_mean vs Slug



Right In: 12.038+/-0.890  $\chi^2/\text{NDF}$ : 426.9/13

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

Right Out: -6.675+/-0.825  $\chi^2/\text{NDF}$ : 402.5/15

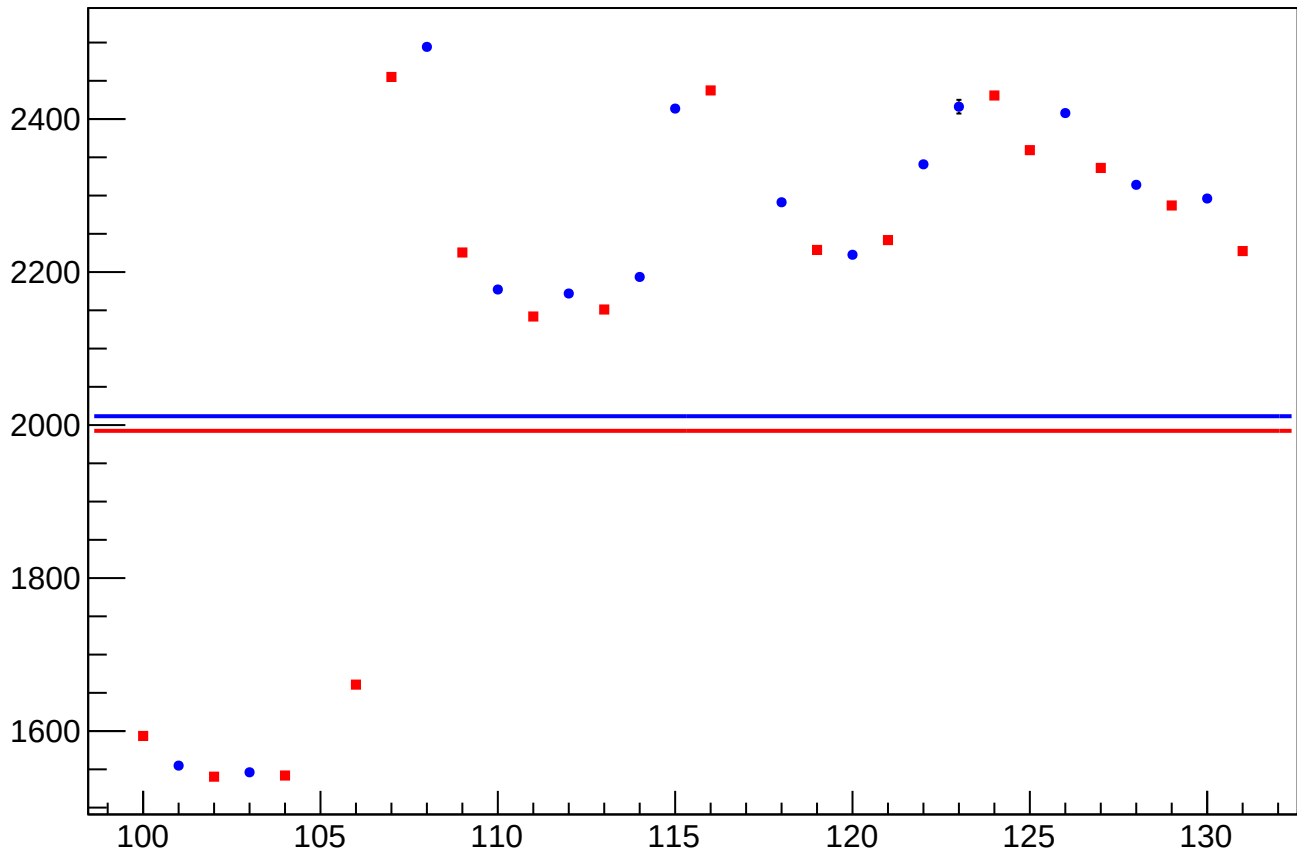
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1.973+/-0.605  $\chi^2/\text{NDF}$ : 1067.3/29

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

# diff\_bpm0l05Y\_rms vs Slug



Right In: 2011.584+/-0.629  $\chi^2/\text{NDF}$ : 343585.3/13

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

Right Out: 1992.475+/-0.583  $\chi^2/\text{NDF}$ : 361058.6/15

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

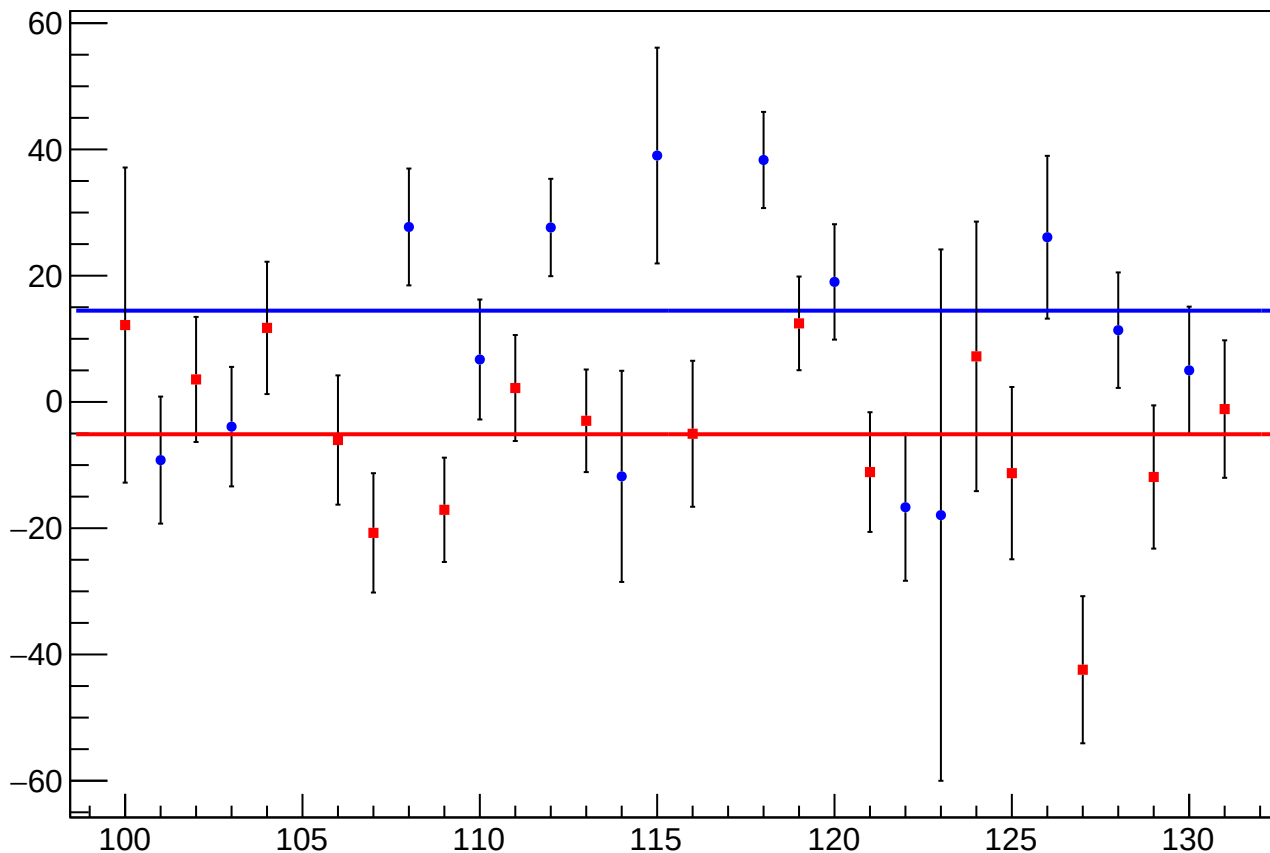
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2001.306+/-0.428  $\chi^2/\text{NDF}$ : 705140.3/29

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



# diff\_bpm0l06X\_mean vs Slug



Right In: 14.459+/-2.747  $\chi^2/\text{NDF}$ : 39.1/13

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

Right Out: -5.117+/-2.552  $\chi^2/\text{NDF}$ : 26.8/15

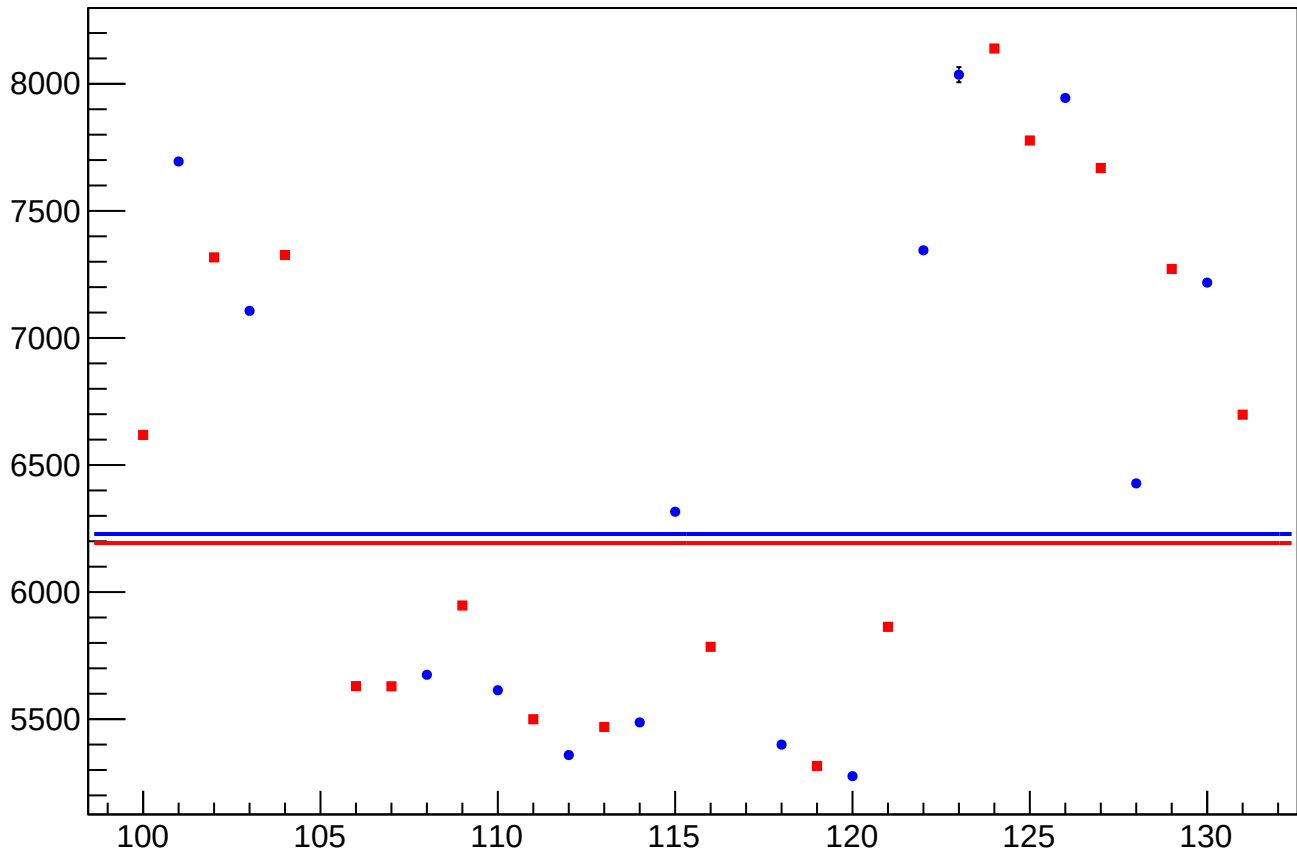
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 3.953+/-1.870  $\chi^2/\text{NDF}$ : 93.1/29

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

# diff\_bpm0l06X\_rms vs Slug



Right In: 6228.652 $\pm$ 1.942  $\chi^2$ /NDF: 227734.9/13

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

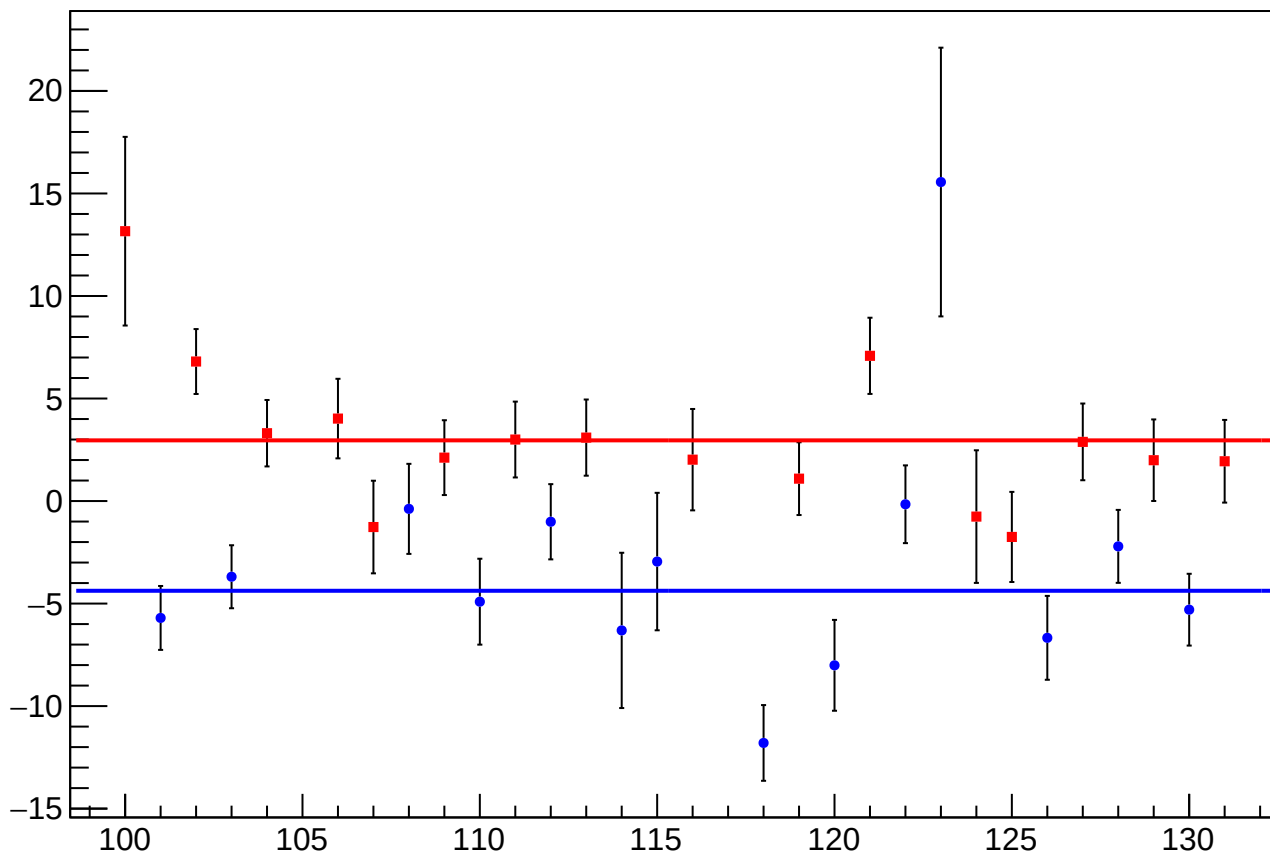
Right Out: 6193.093 $\pm$ 1.805  $\chi^2$ /NDF: 225076.3/15

All: 6209.568 $\pm$ 1.322  $\chi^2$ /NDF: 452991.1/29

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

# diff\_bpm0l06Y\_mean vs Slug



Right In:  $-4.376 \pm 0.542$   $\chi^2/\text{NDF}: 44.2/13$

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

Right Out:  $2.959 \pm 0.498$   $\chi^2/\text{NDF}: 27.5/15$

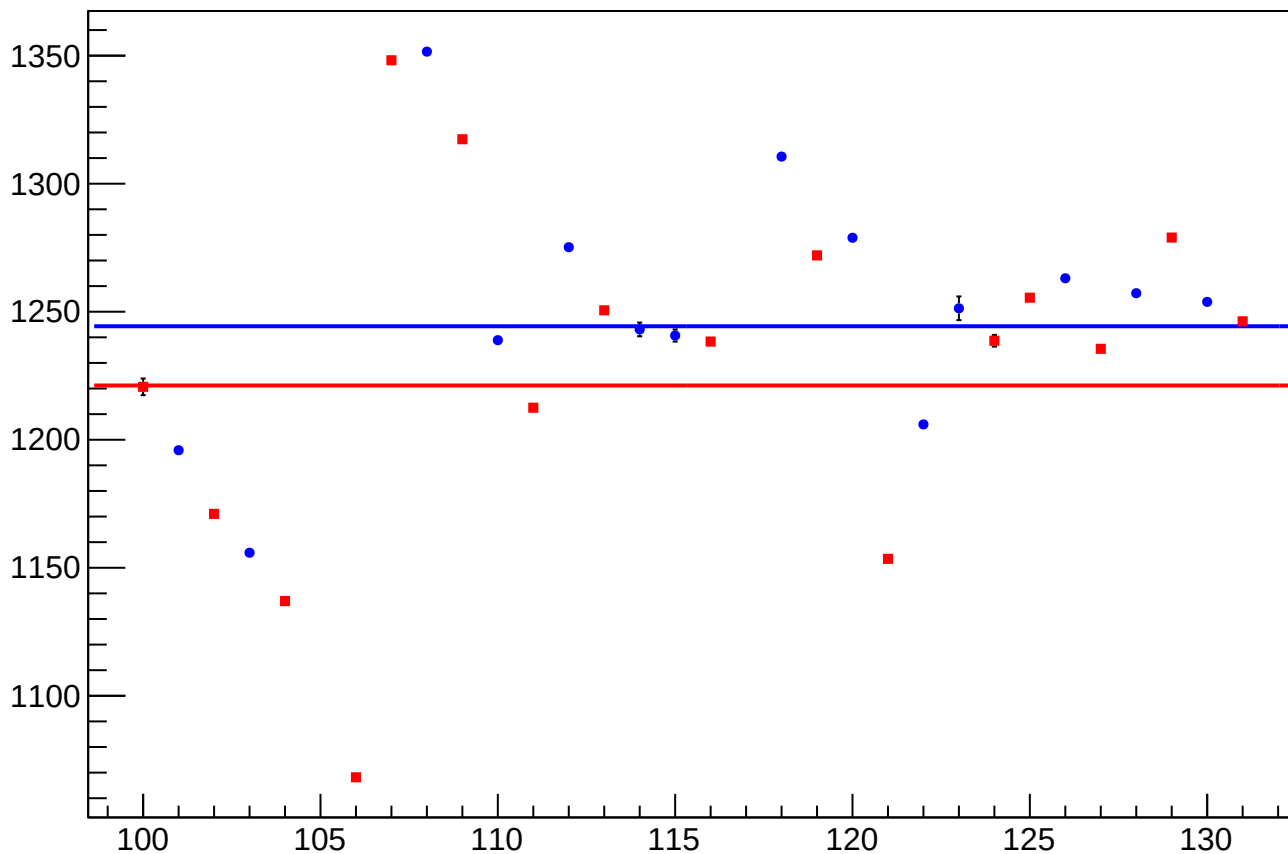
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

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

All:  $-0.401 \pm 0.367$   $\chi^2/\text{NDF}: 171.0/29$

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

# diff\_bpm0l06Y\_rms vs Slug



Right In: 1244.323+/-0.383  $\chi^2/\text{NDF}$ : 18128.5/13

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

Right Out: 1221.184+/-0.352  $\chi^2/\text{NDF}$ : 39327.0/15

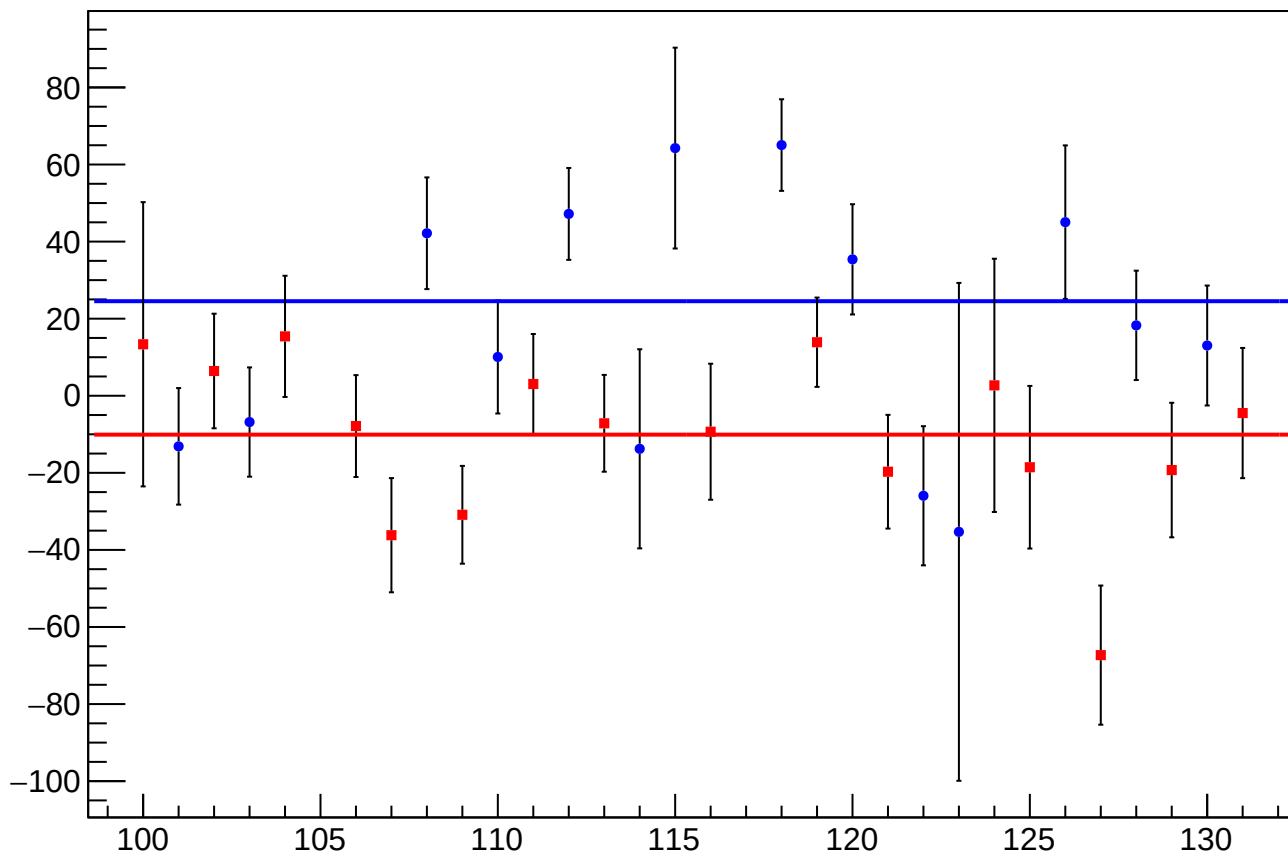
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1231.784+/-0.259  $\chi^2/\text{NDF}$ : 59432.2/29

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

# diff\_bpm0l07X\_mean vs Slug



Right In: 24.536 $\pm$ 4.239  $\chi^2$ /NDF: 44.3/13

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

Right Out: -10.089 $\pm$ 3.882  $\chi^2$ /NDF: 26.6/15

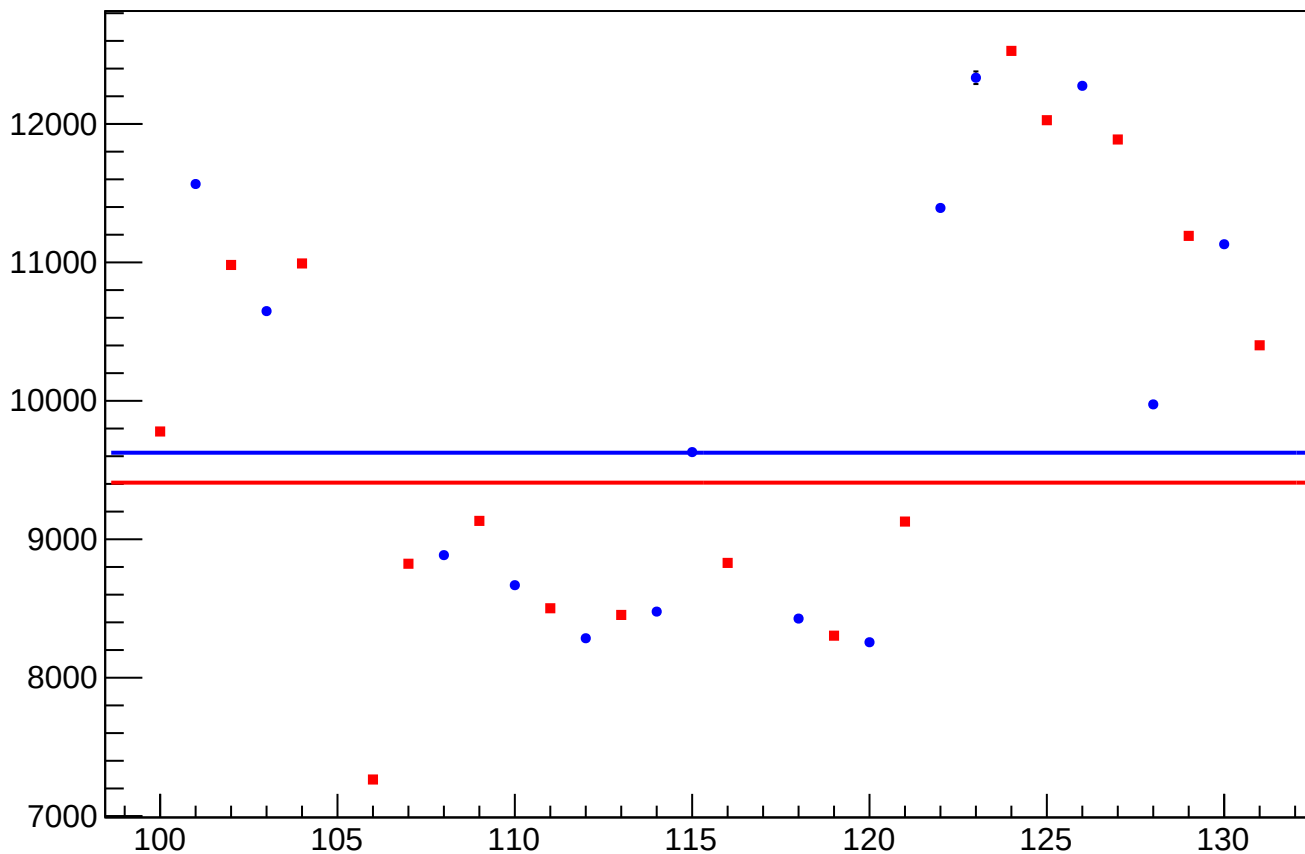
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 5.705 $\pm$ 2.863  $\chi^2$ /NDF: 107.3/29

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

# diff\_bpm0l07X\_rms vs Slug



Right In: 9625.321+/-2.997  $\chi^2/\text{NDF}$ : 202978.9/13

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

Right Out: 9409.113+/-2.745  $\chi^2/\text{NDF}$ : 256286.4/15

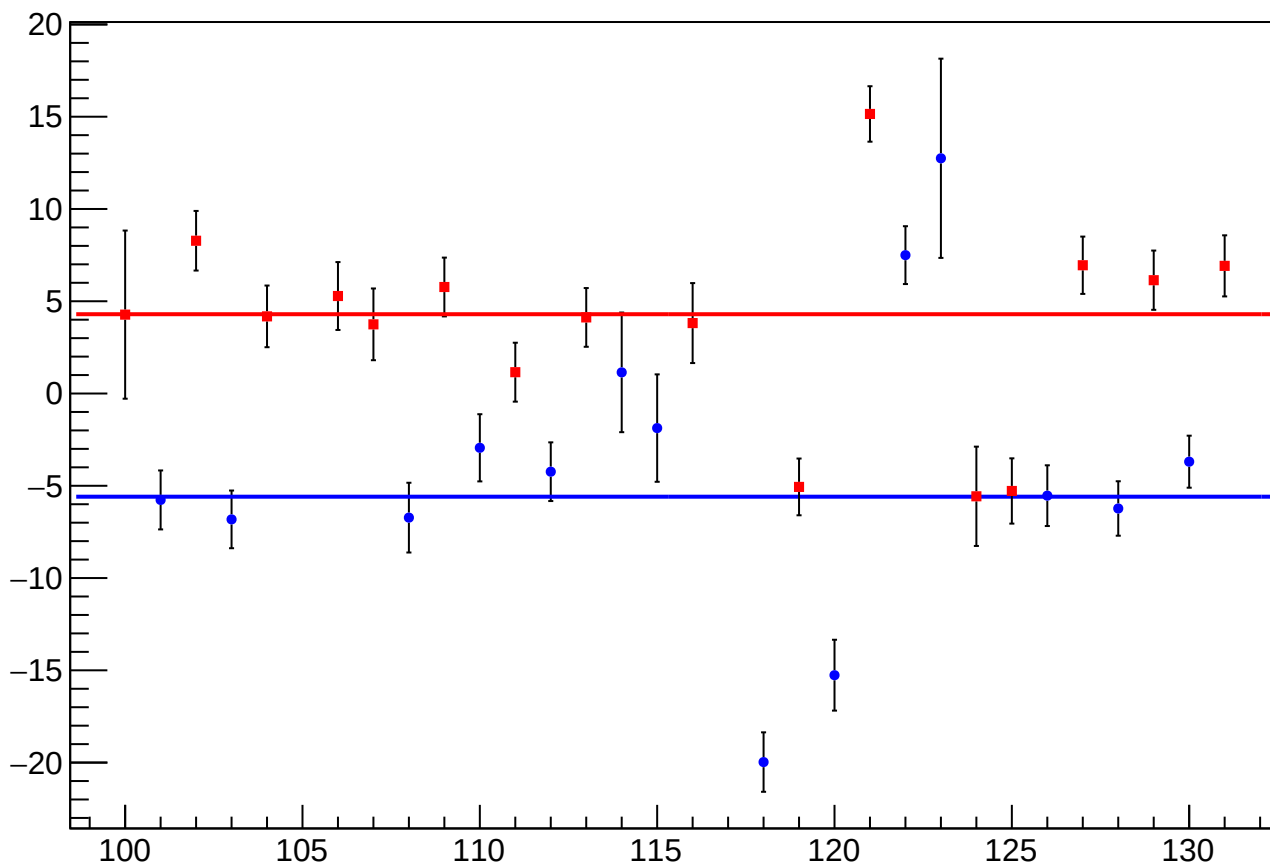
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 9507.735+/-2.024  $\chi^2/\text{NDF}$ : 462095.0/29

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

# diff\_bpm0l07Y\_mean vs Slug



Right In: -5.591+/-0.476  $\chi^2/\text{NDF}$ : 198.1/13

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

Right Out: 4.297+/-0.437  $\chi^2/\text{NDF}$ : 149.9/15

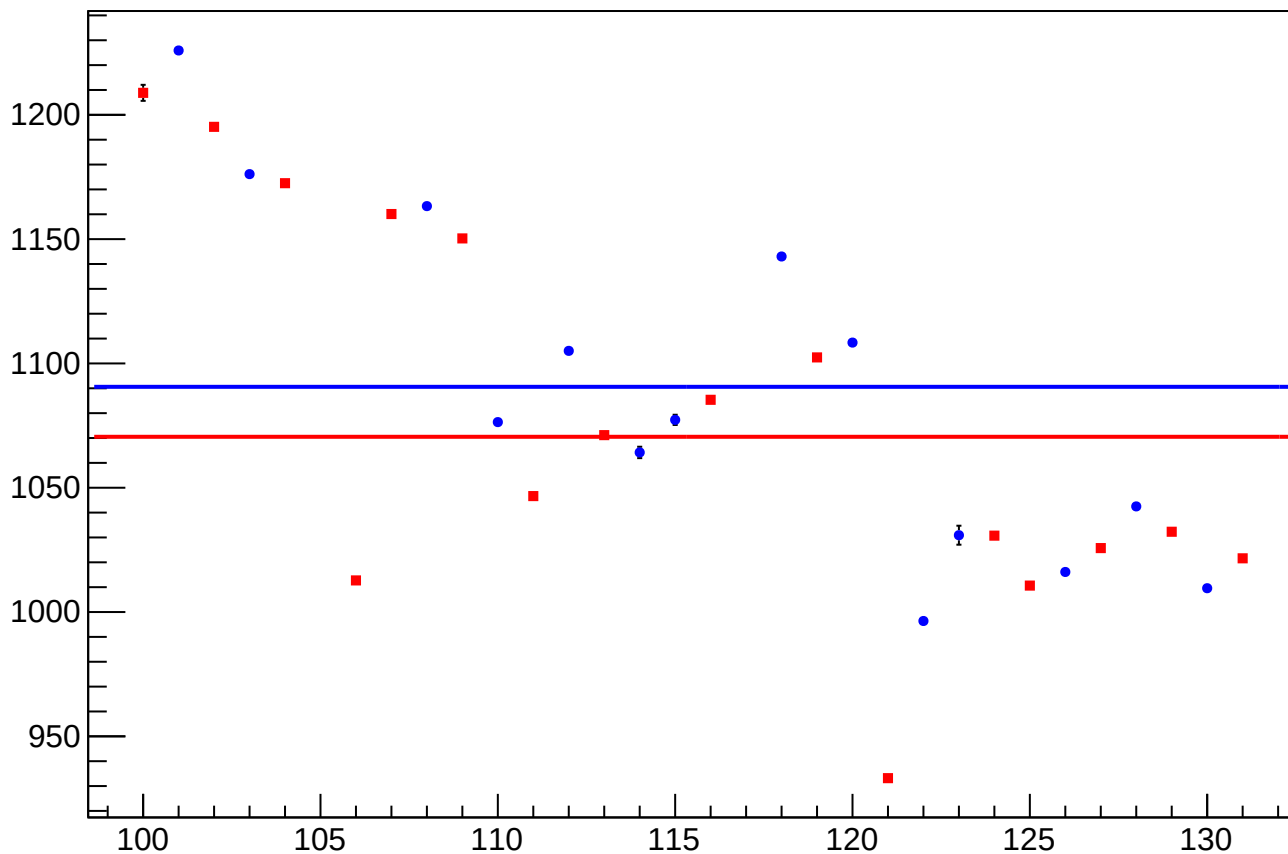
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.230+/-0.322  $\chi^2/\text{NDF}$ : 582.5/29

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

# diff\_bpm0l07Y\_rms vs Slug



Right In:  $1090.595 \pm 0.336$   $\chi^2/\text{NDF}: 46344.8/13$

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

Right Out:  $1070.495 \pm 0.309$   $\chi^2/\text{NDF}: 57821.9/15$

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

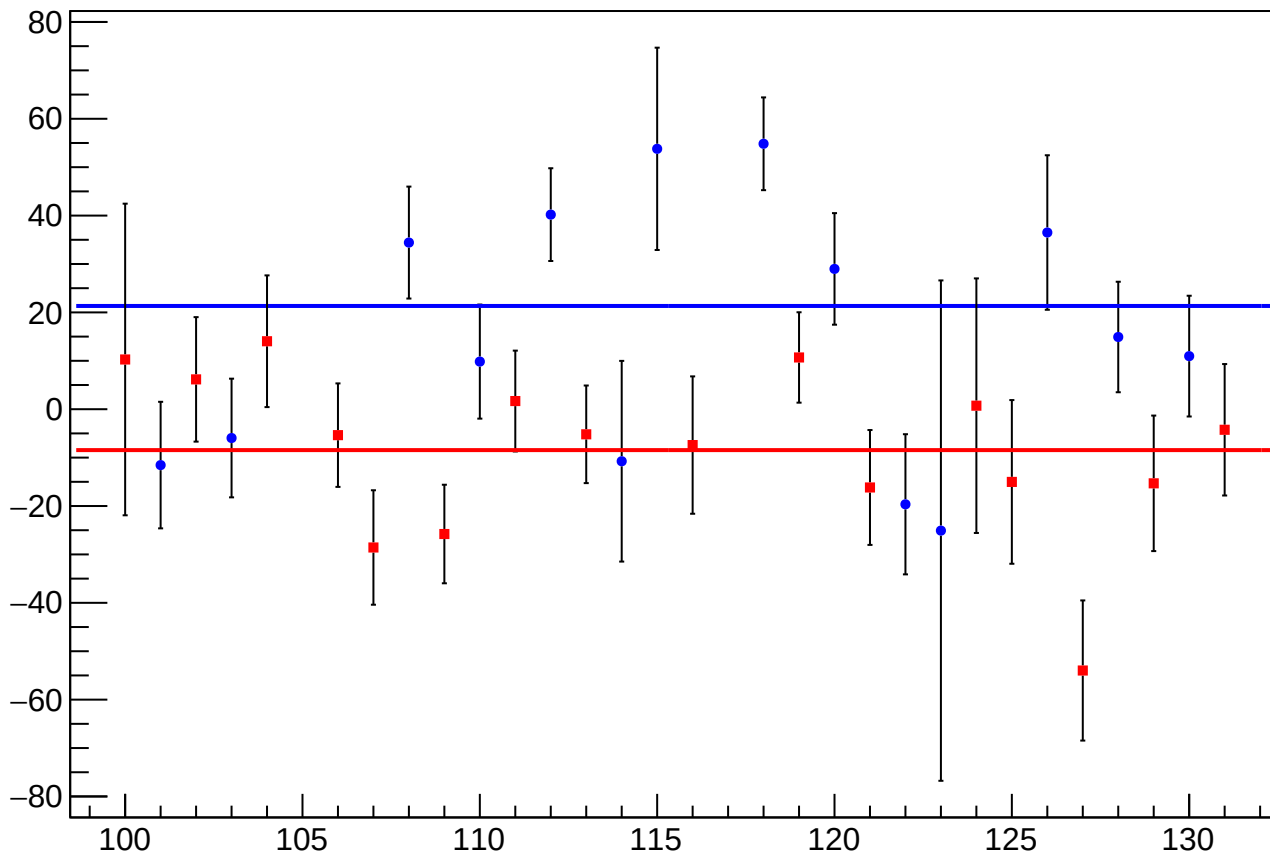
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $1079.699 \pm 0.228$   $\chi^2/\text{NDF}: 106103.5/29$

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



# diff\_bpm0l08X\_mean vs Slug



Right In: 21.331 $\pm$ 3.444  $\chi^2$ /NDF: 45.6/13

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

Right Out: -8.449 $\pm$ 3.150  $\chi^2$ /NDF: 26.4/15

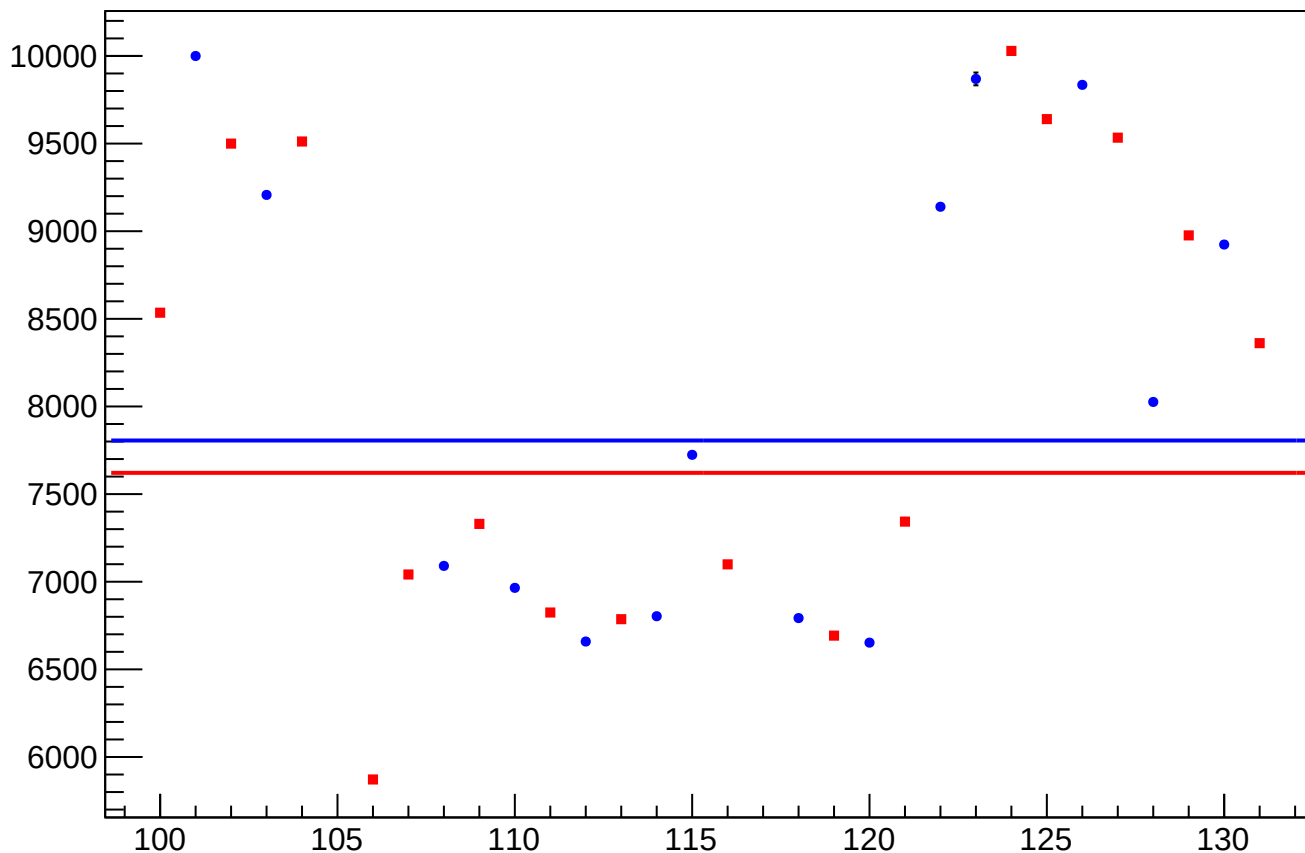
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 5.112 $\pm$ 2.324  $\chi^2$ /NDF: 112.7/29

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

# diff\_bpm0l08X\_rms vs Slug



Right In: 7805.809+/-2.436  $\chi^2/\text{NDF}$ : 245360.6/13

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

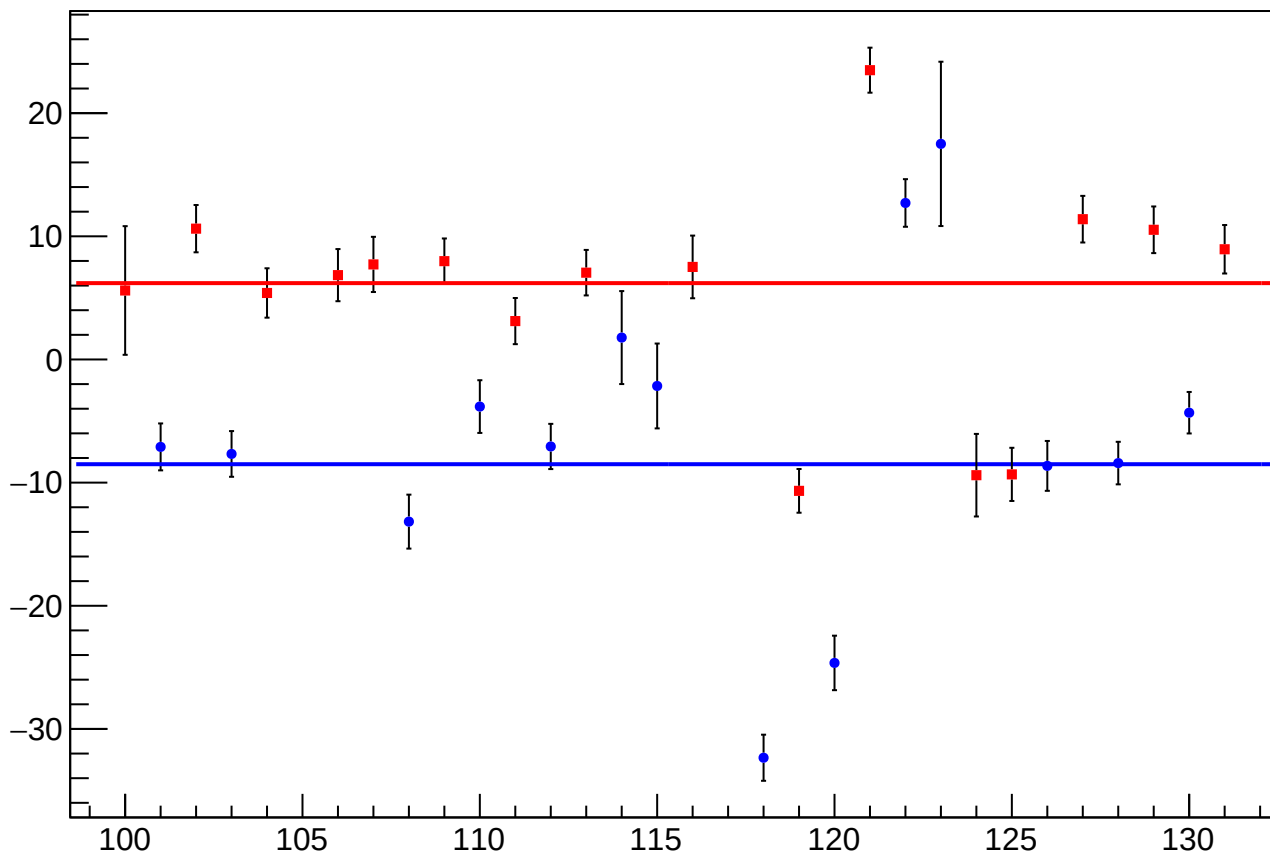
Right Out: 7621.279+/-2.227  $\chi^2/\text{NDF}$ : 296785.8/15

All: 7705.313+/-1.644  $\chi^2/\text{NDF}$ : 545272.6/29

- 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\_bpm0l08Y\_mean vs Slug



Right In: -8.505 $\pm$ 0.563  $\chi^2$ /NDF: 378.5/13

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

Right Out: 6.199 $\pm$ 0.517  $\chi^2$ /NDF: 278.0/15

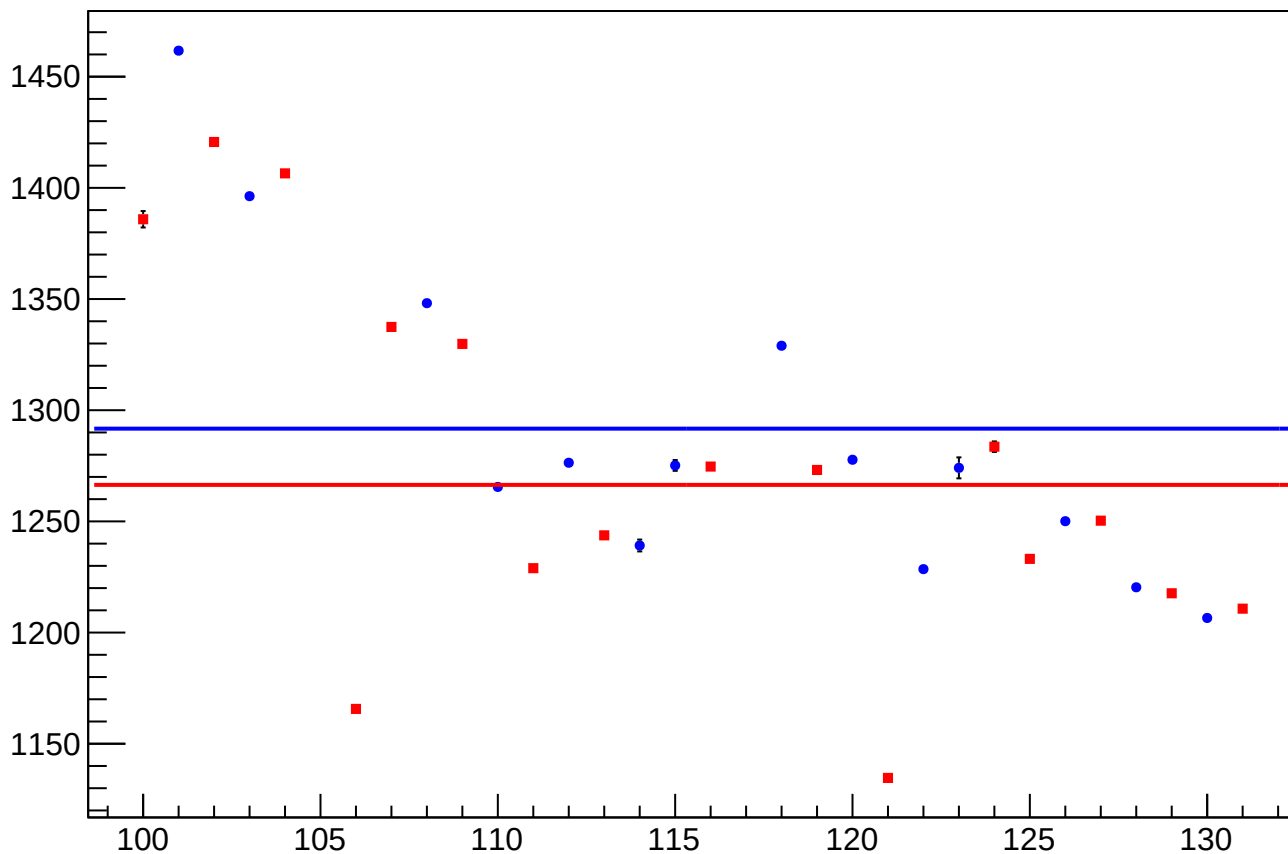
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -0.527 $\pm$ 0.381  $\chi^2$ /NDF: 1026.6/29

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

# diff\_bpm0l08Y\_rms vs Slug



Right In: 1291.714+/-0.398  $\chi^2/\text{NDF}$ : 36862.0/13

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

Right Out: 1266.415+/-0.366  $\chi^2/\text{NDF}$ : 47769.3/15

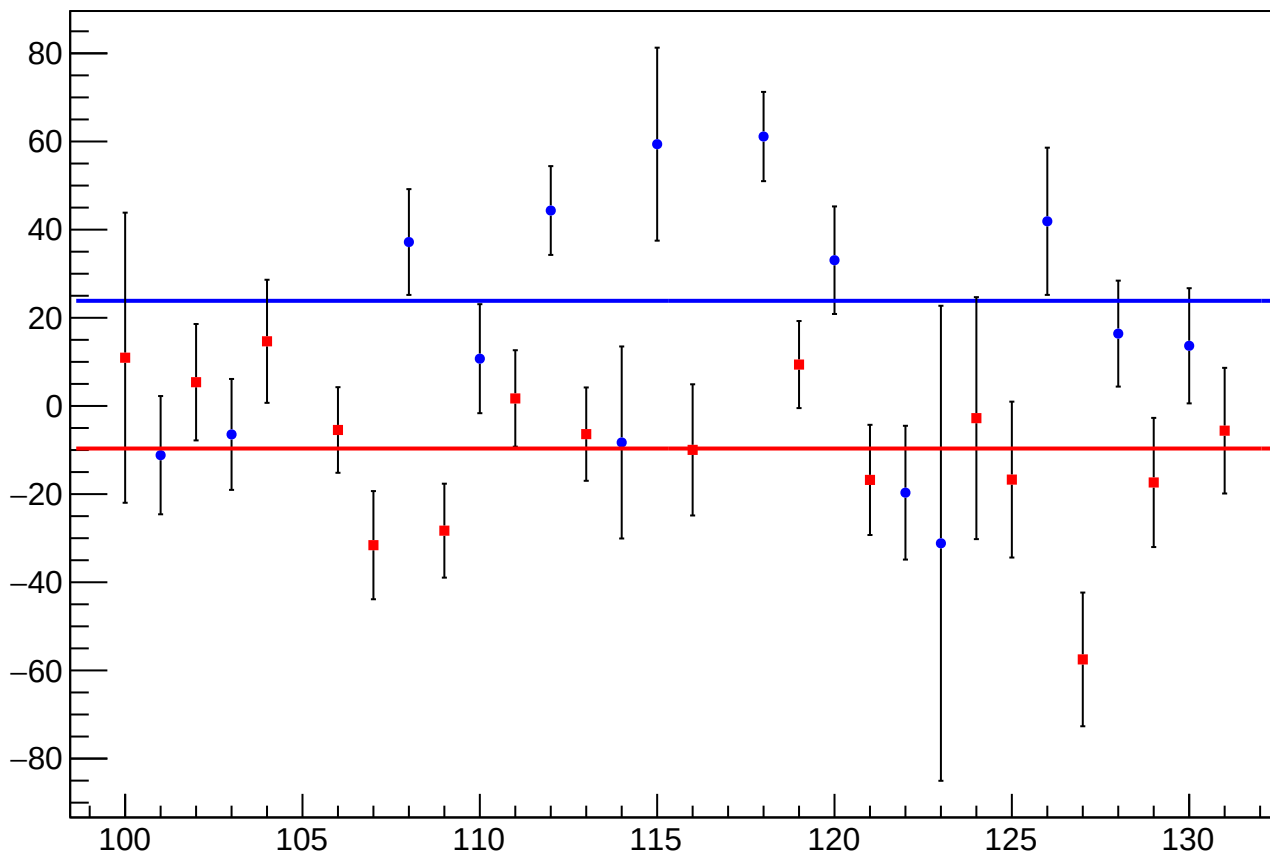
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1277.988+/-0.269  $\chi^2/\text{NDF}$ : 86822.3/29

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

# diff\_bpm0l09X\_mean vs Slug



Right In: 23.853 $\pm$ 3.605  $\chi^2$ /NDF: 49.5/13

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

Right Out: -9.657 $\pm$ 3.249  $\chi^2$ /NDF: 26.9/15

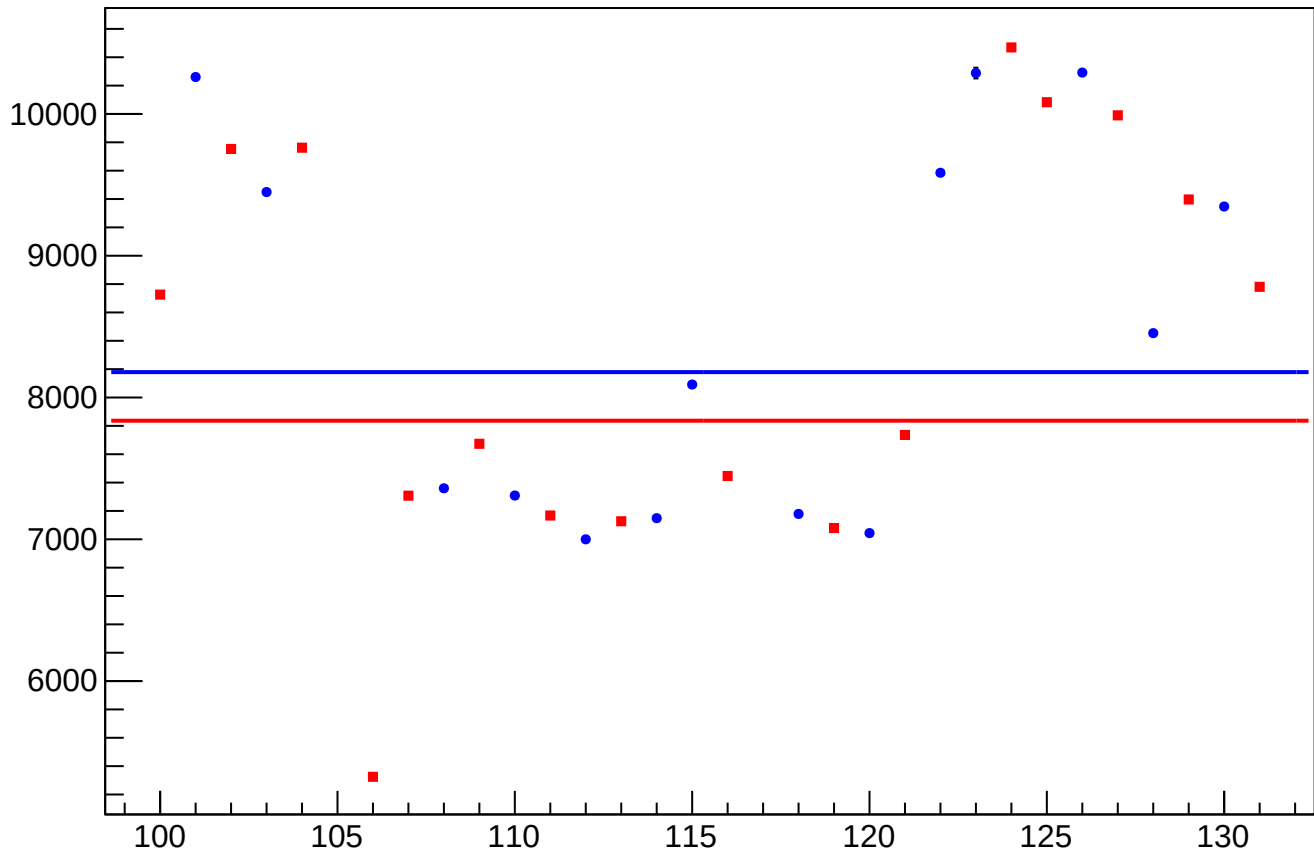
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 5.361 $\pm$ 2.414  $\chi^2$ /NDF: 124.1/29

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

# diff\_bpm0l09X\_rms vs Slug



Right In: 8179.140+/-2.549  $\chi^2/\text{NDF}$ : 225814.3/13

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

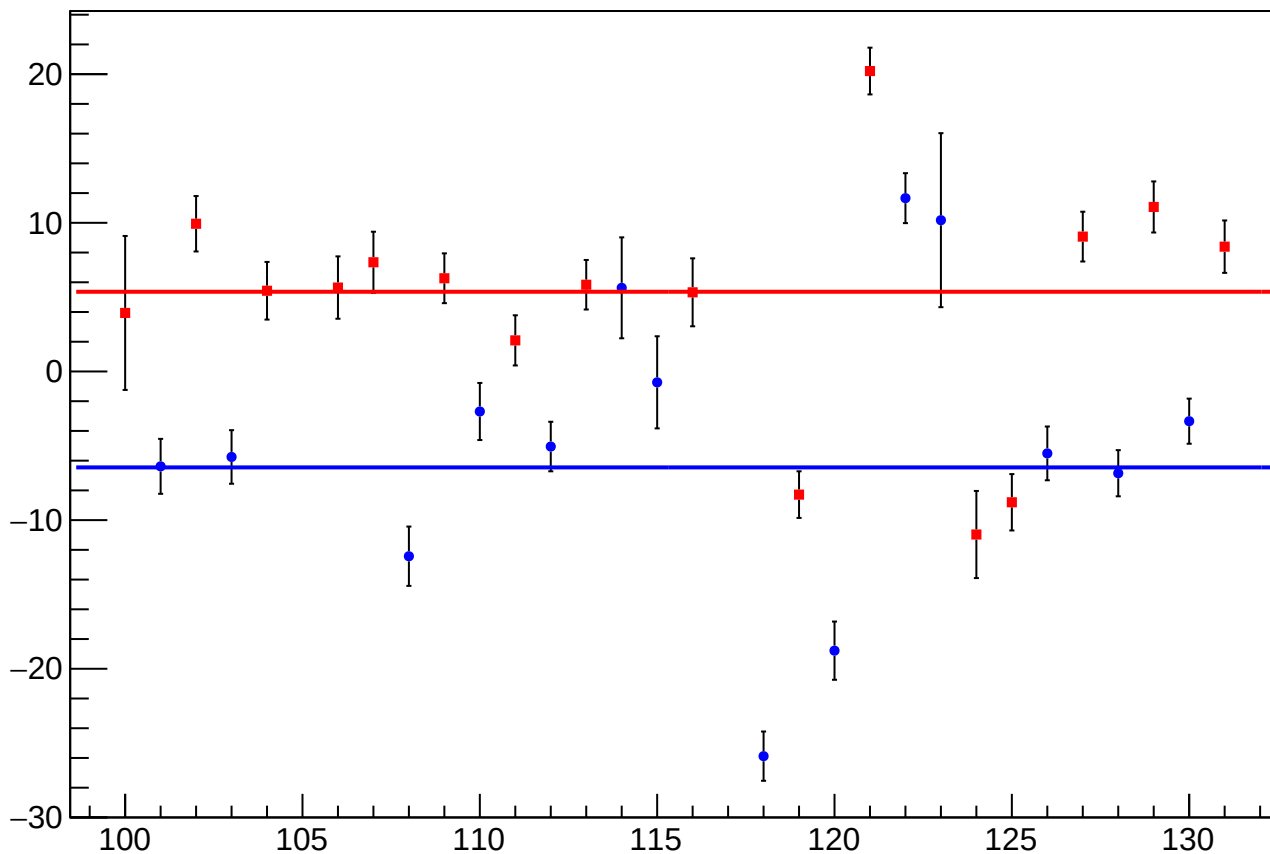
Right Out: 7836.476+/-2.297  $\chi^2/\text{NDF}$ : 371779.2/15

All: 7990.044+/-1.707  $\chi^2/\text{NDF}$ : 607563.6/29

- 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\_bpm0l09Y\_mean vs Slug



Right In: -6.454 $\pm$ 0.511  $\chi^2$ /NDF: 335.4/13

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

Right Out: 5.362 $\pm$ 0.469  $\chi^2$ /NDF: 281.8/15

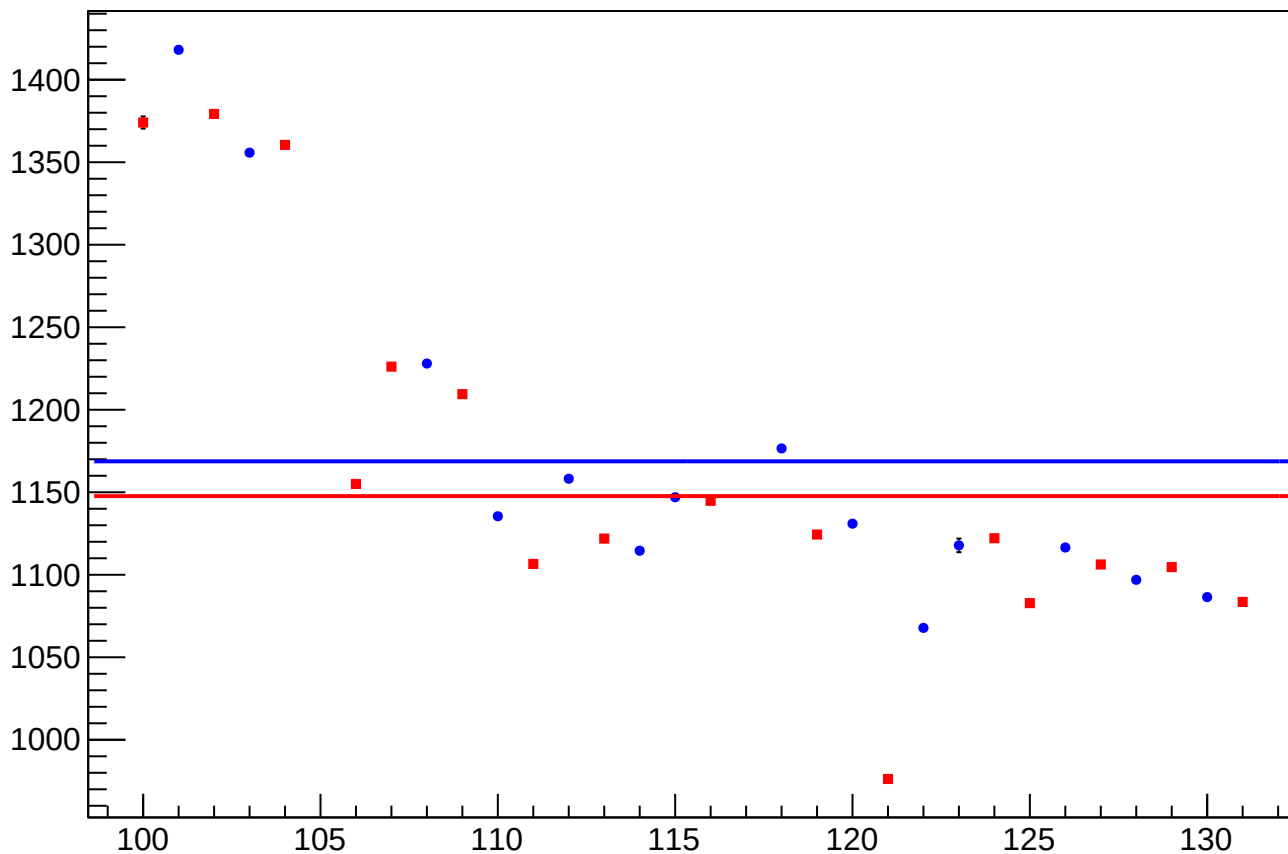
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -0.052 $\pm$ 0.346  $\chi^2$ /NDF: 907.4/29

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

# diff\_bpm0l09Y\_rms vs Slug



Right In: 1168.744 $\pm$ 0.361  $\chi^2$ /NDF: 80992.6/13

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

Right Out: 1147.652 $\pm$ 0.332  $\chi^2$ /NDF: 97922.8/15

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

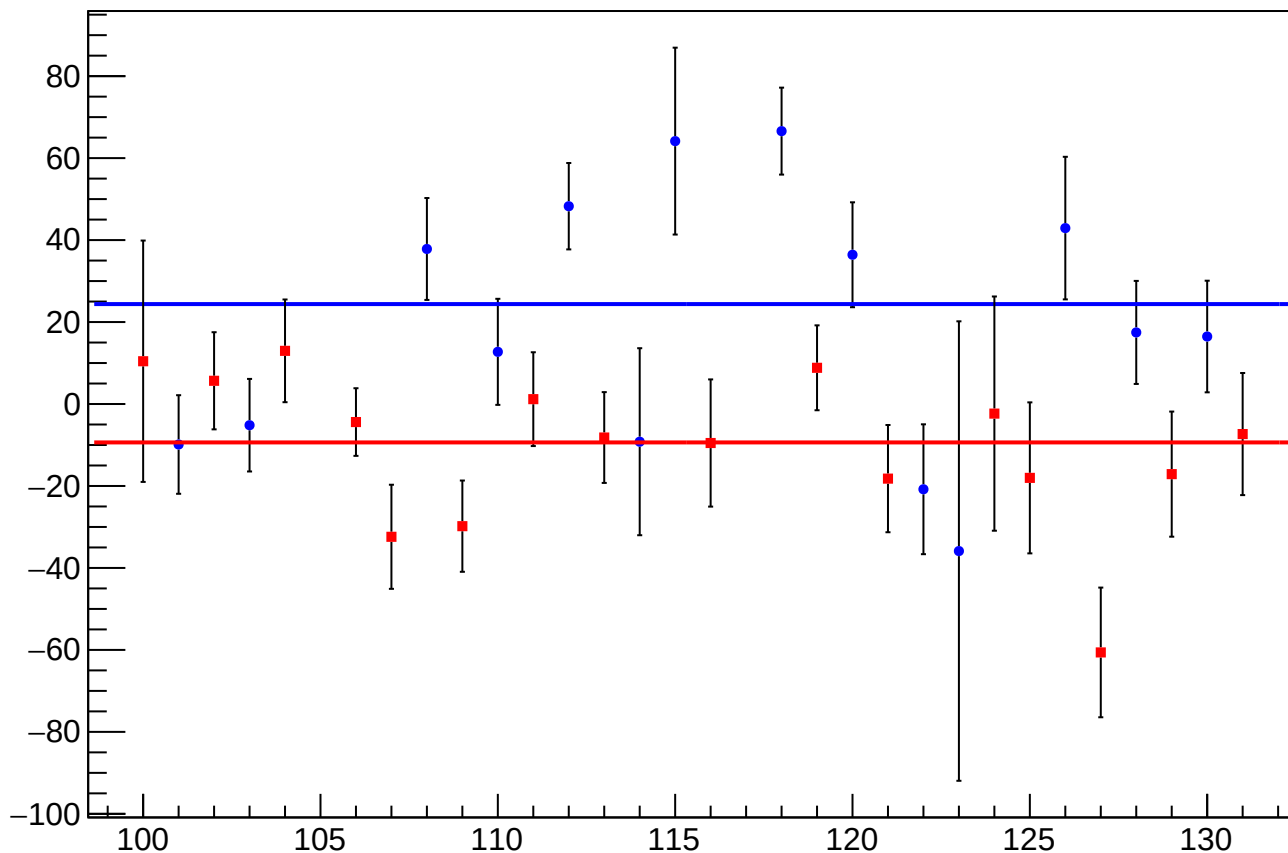
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1157.317 $\pm$ 0.244  $\chi^2$ /NDF: 180764.9/29

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



# diff\_bpm0l10X\_mean vs Slug



Right In: 24.382 $\pm$ 3.667  $\chi^2$ /NDF: 55.1/13

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

Right Out: -9.372 $\pm$ 3.233  $\chi^2$ /NDF: 27.7/15

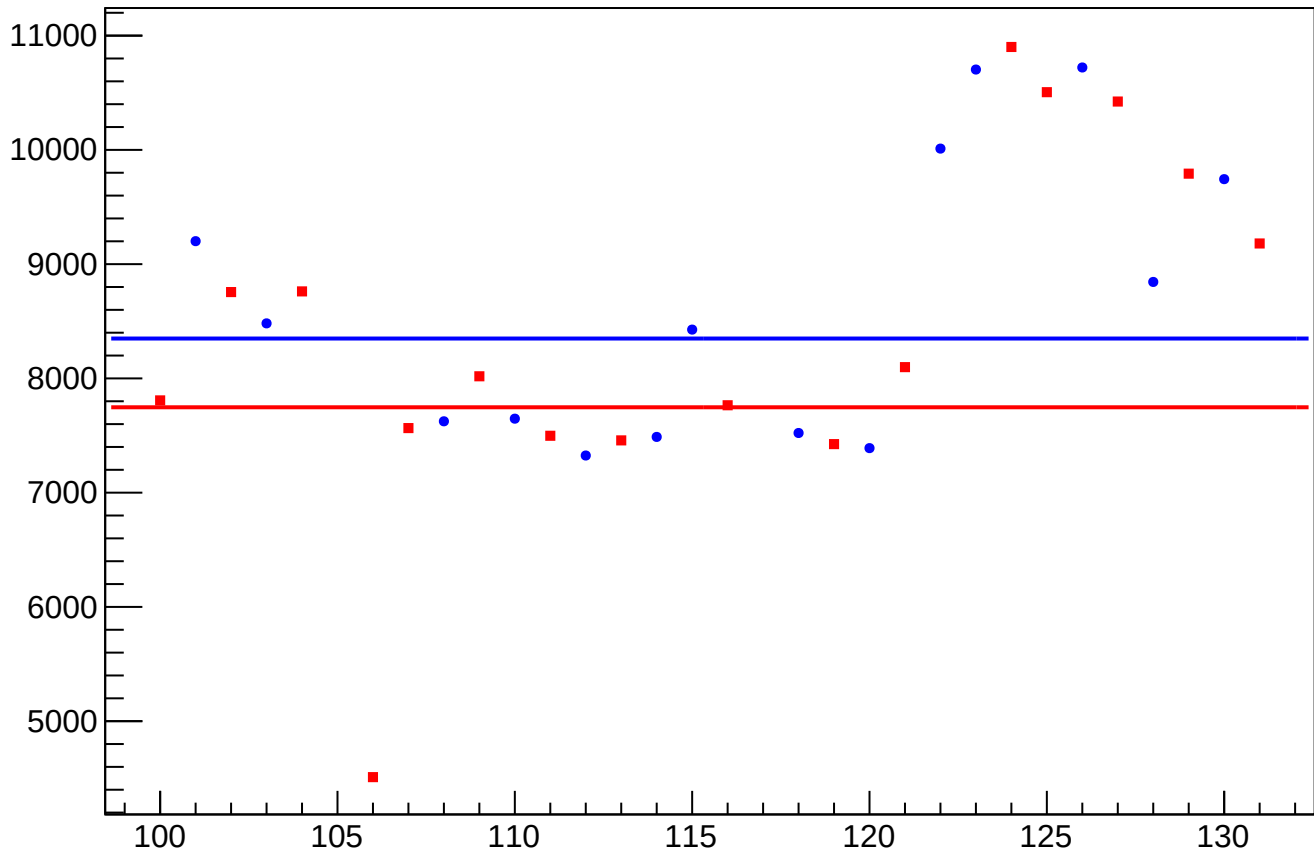
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 5.391 $\pm$ 2.425  $\chi^2$ /NDF: 130.4/29

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

# diff\_bpm0l10X\_rms vs Slug



Right In: 8349.006 $\pm$ 2.593  $\chi^2$ /NDF: 154930.1/13

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

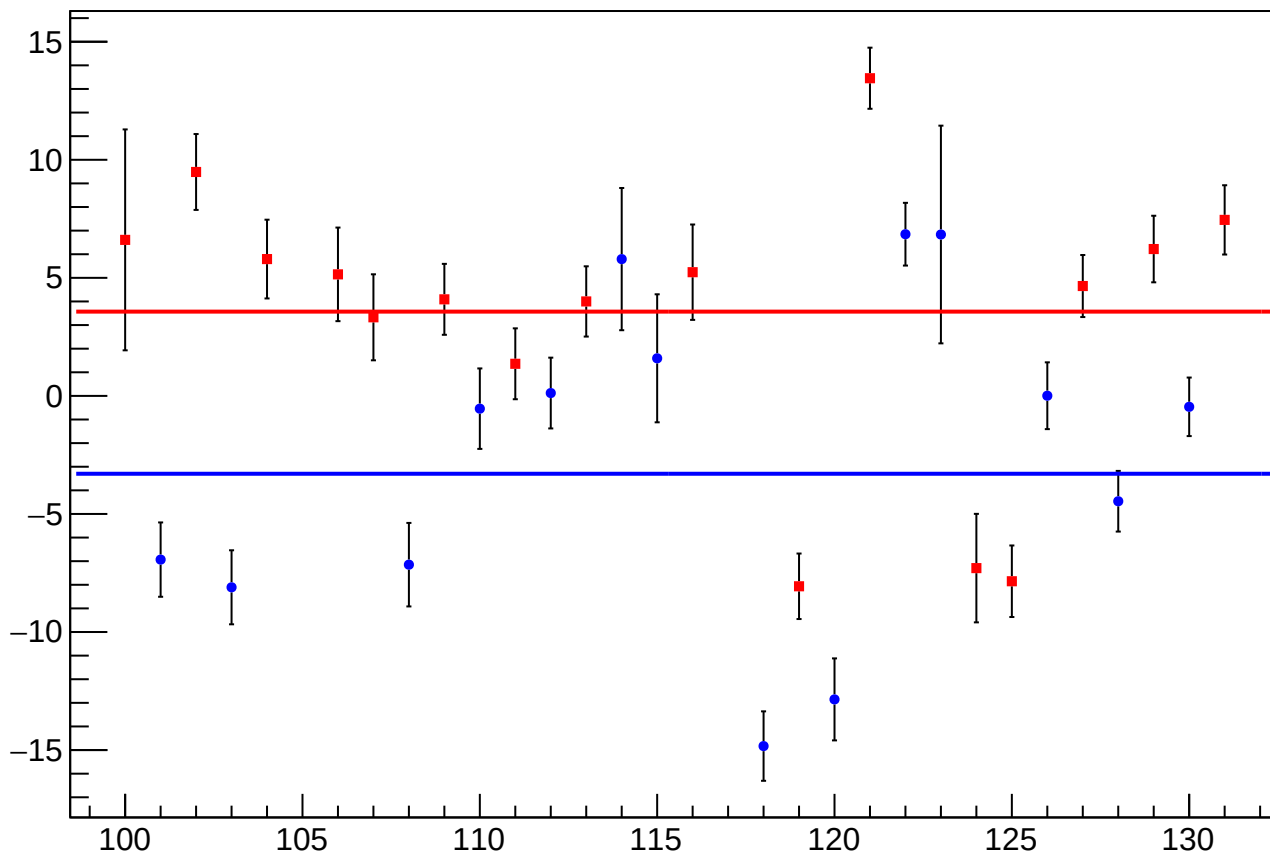
Right Out: 7747.258 $\pm$ 2.286  $\chi^2$ /NDF: 523443.0/15

All: 8010.444 $\pm$ 1.715  $\chi^2$ /NDF: 708670.6/29

- 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\_bpm0l10Y\_mean vs Slug



Right In: -3.298 $\pm$ 0.433  $\chi^2$ /NDF: 206.1/13

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

Right Out: 3.570 $\pm$ 0.401  $\chi^2$ /NDF: 238.5/15

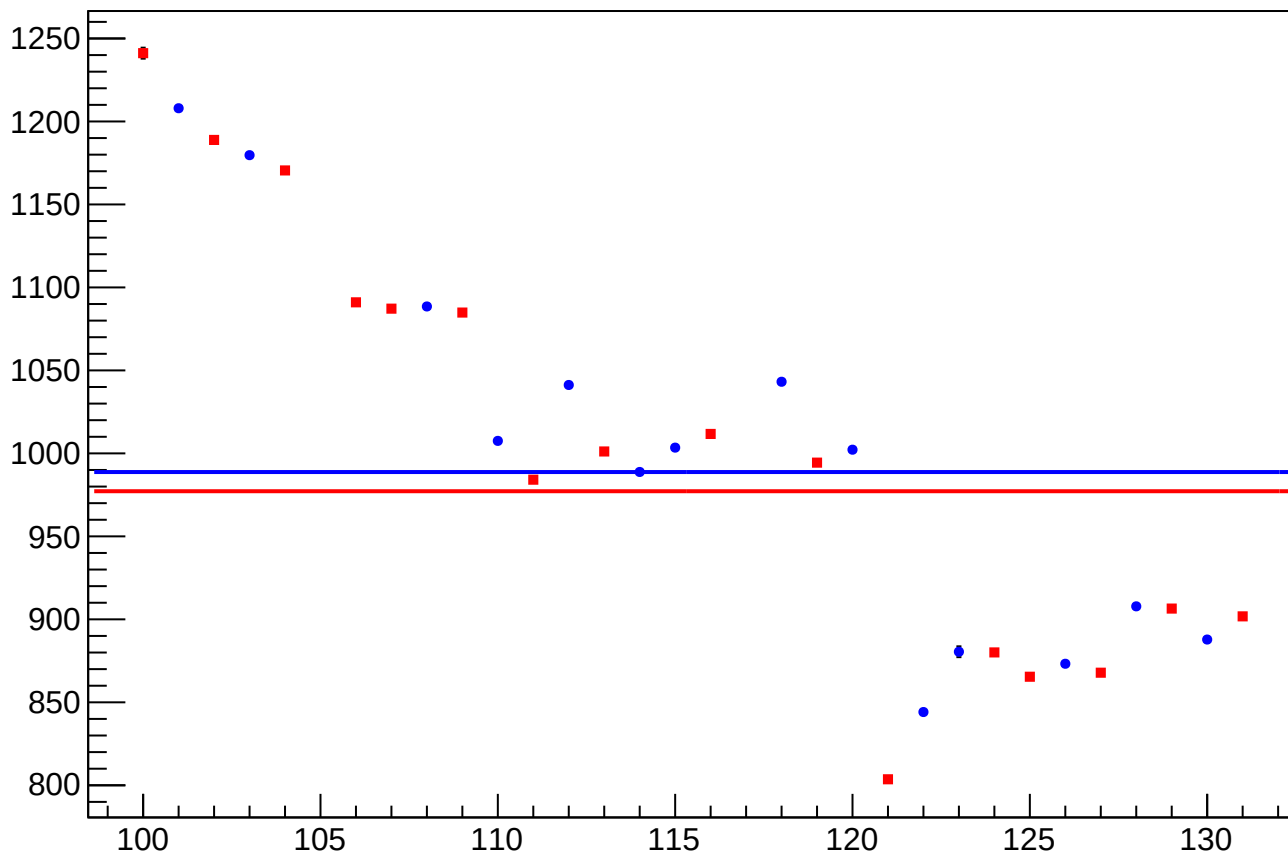
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.401 $\pm$ 0.294  $\chi^2$ /NDF: 580.1/29

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

# diff\_bpm0l10Y\_rms vs Slug



Right In: 988.756 $\pm$ 0.306  $\chi^2$ /NDF: 139767.7/13

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

Right Out: 977.195 $\pm$ 0.283  $\chi^2$ /NDF: 168158.8/15

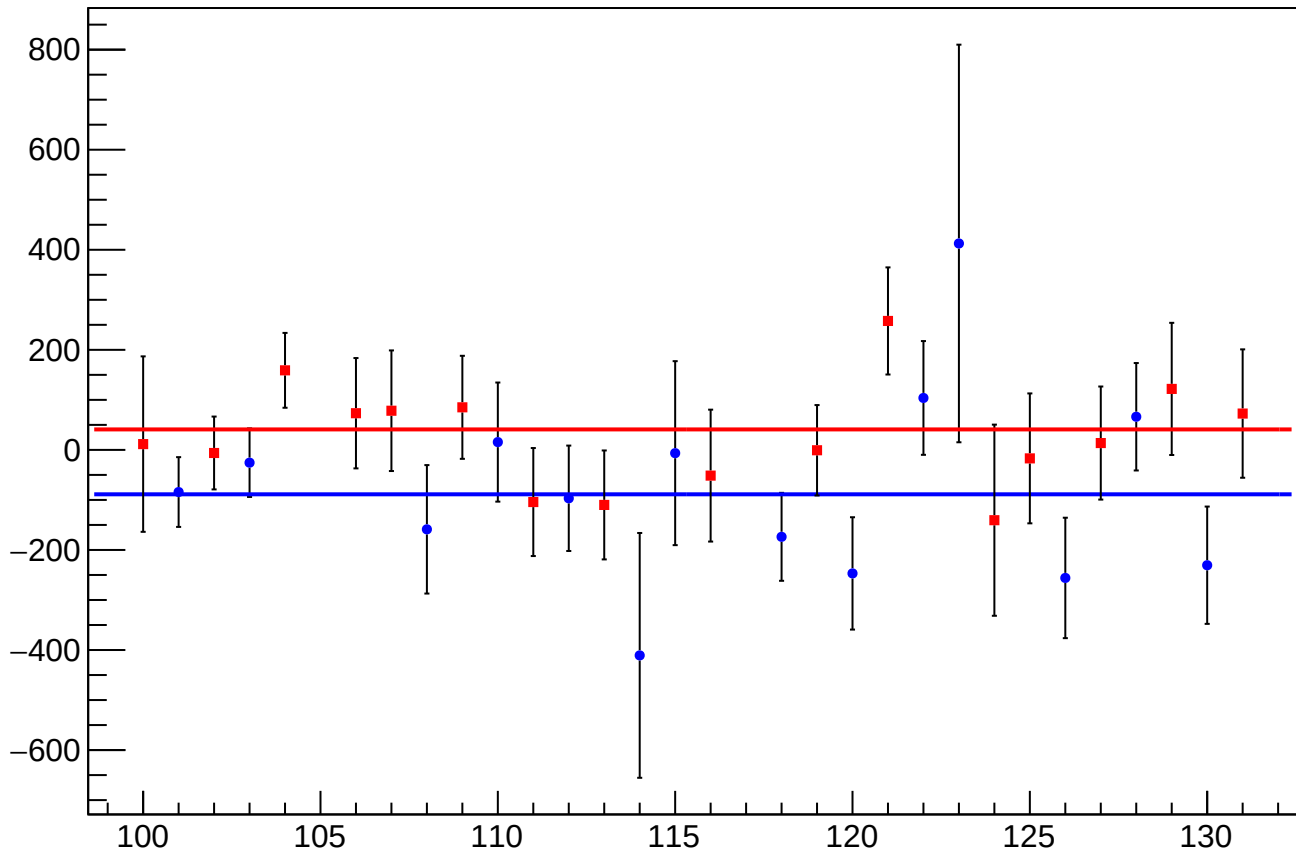
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 982.530 $\pm$ 0.208  $\chi^2$ /NDF: 308693.8/29

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

# diff\_bpm0r03X\_mean vs Slug



Right In: -88.771 $\pm$ 28.778  $\chi^2$ /NDF: 16.7/13

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

Right Out: 40.931 $\pm$ 27.058  $\chi^2$ /NDF: 13.4/15

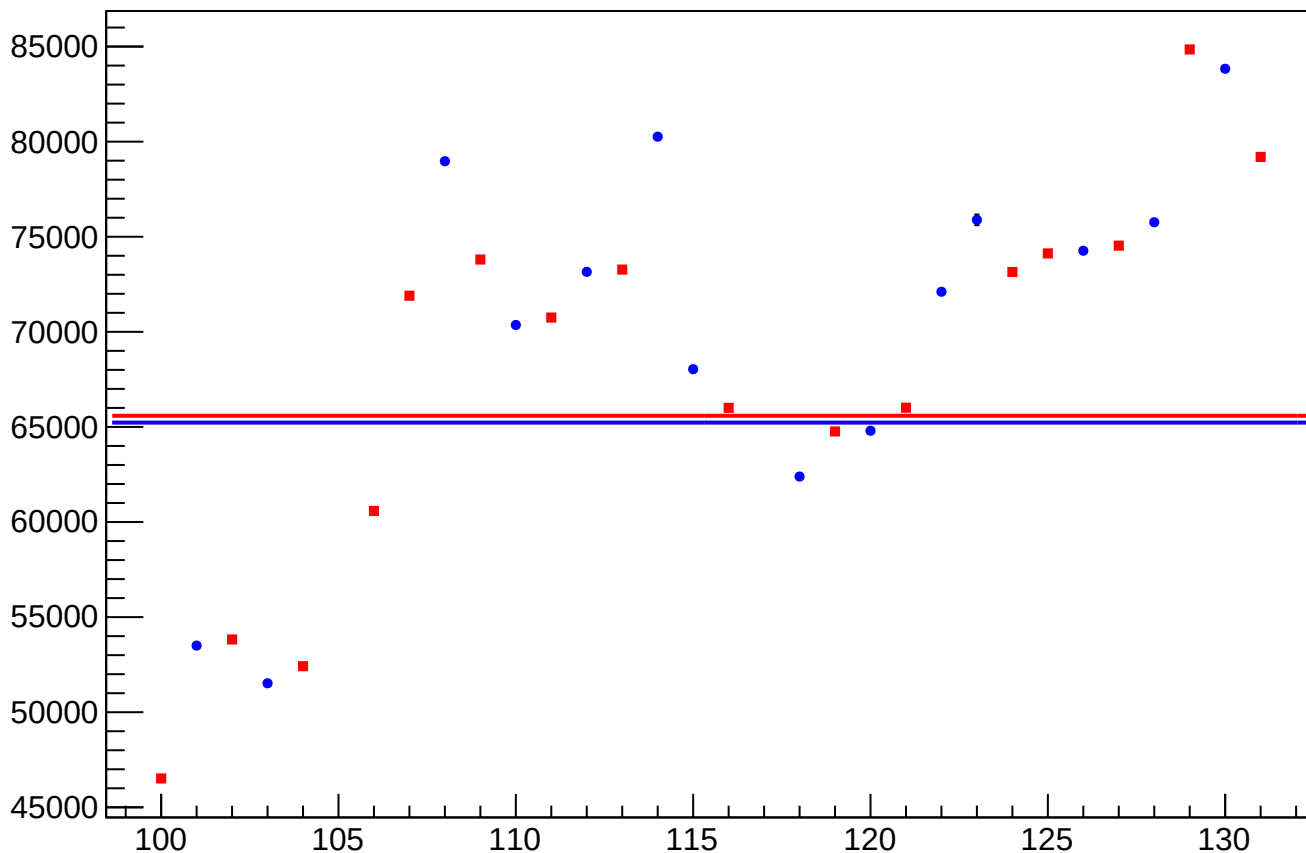
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -19.927 $\pm$ 19.713  $\chi^2$ /NDF: 40.9/29

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

# diff\_bpm0r03X\_rms vs Slug



Right In: 65229.017+/-20.349  $\chi^2/\text{NDF}$ : 274378.3/13

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

Right Out: 65587.160+/-19.133  $\chi^2/\text{NDF}$ : 264268.9/15

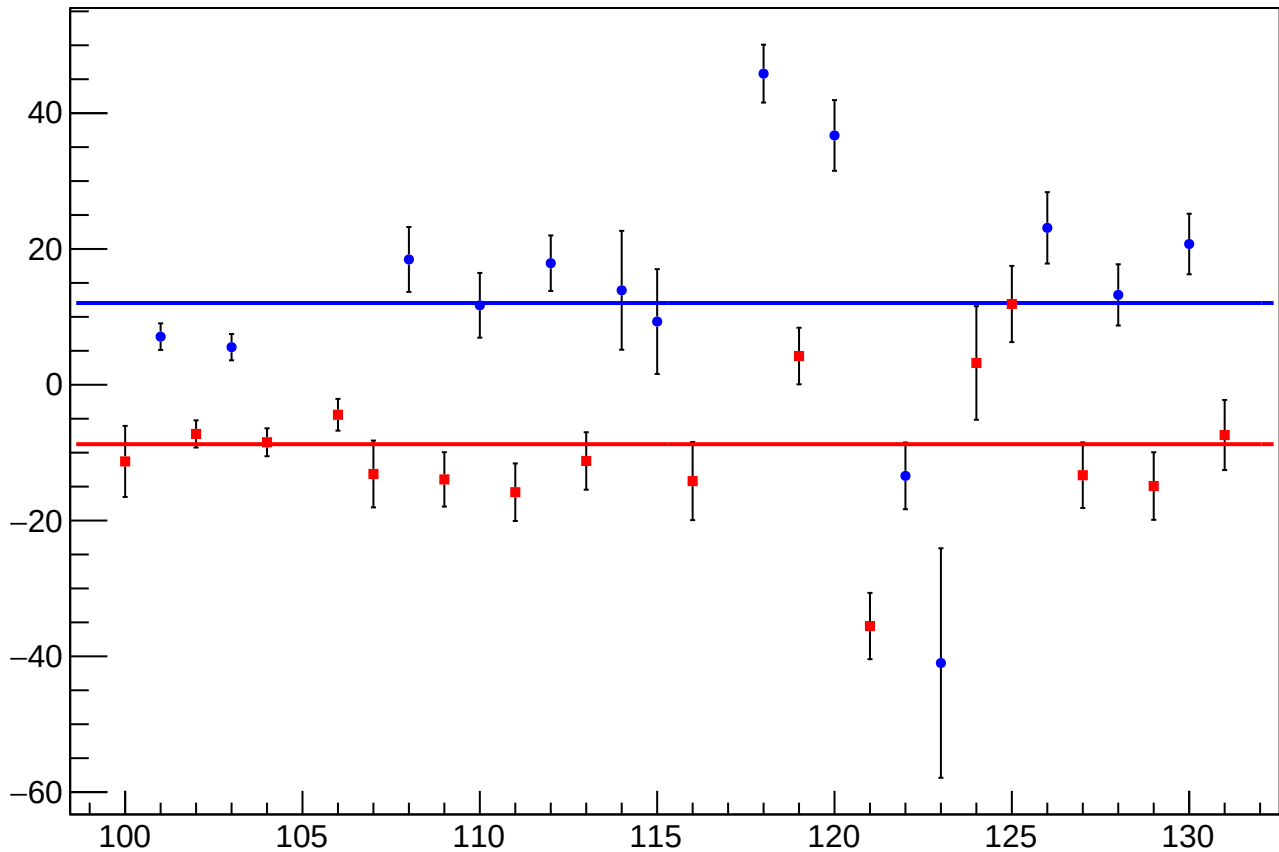
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 65419.115+/-13.939  $\chi^2/\text{NDF}$ : 538811.7/2

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

# diff\_bpm0r03Y\_mean vs Slug



Right In: 12.041 $\pm$ 1.012  $\chi^2$ /NDF: 151.8/13

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

Right Out: -8.755 $\pm$ 0.906  $\chi^2$ /NDF: 68.7/15

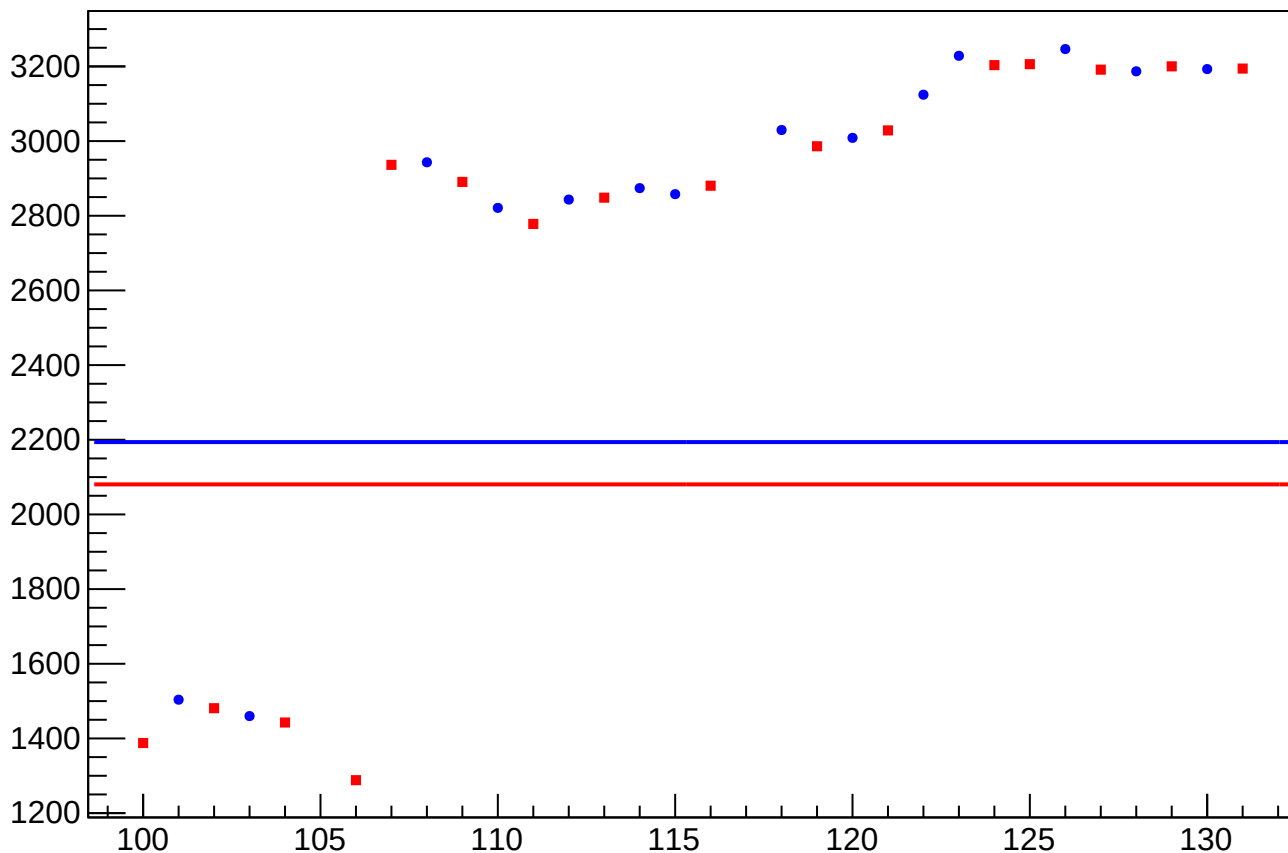
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 0.498 $\pm$ 0.675  $\chi^2$ /NDF: 454.7/29

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

# diff\_bpm0r03Y\_rms vs Slug



Right In: 2193.809+/-0.716  $\chi^2/\text{NDF}$ : 1177749.6/13

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: 2080.494+/-0.641  $\chi^2/\text{NDF}$ : 1524134.9/15

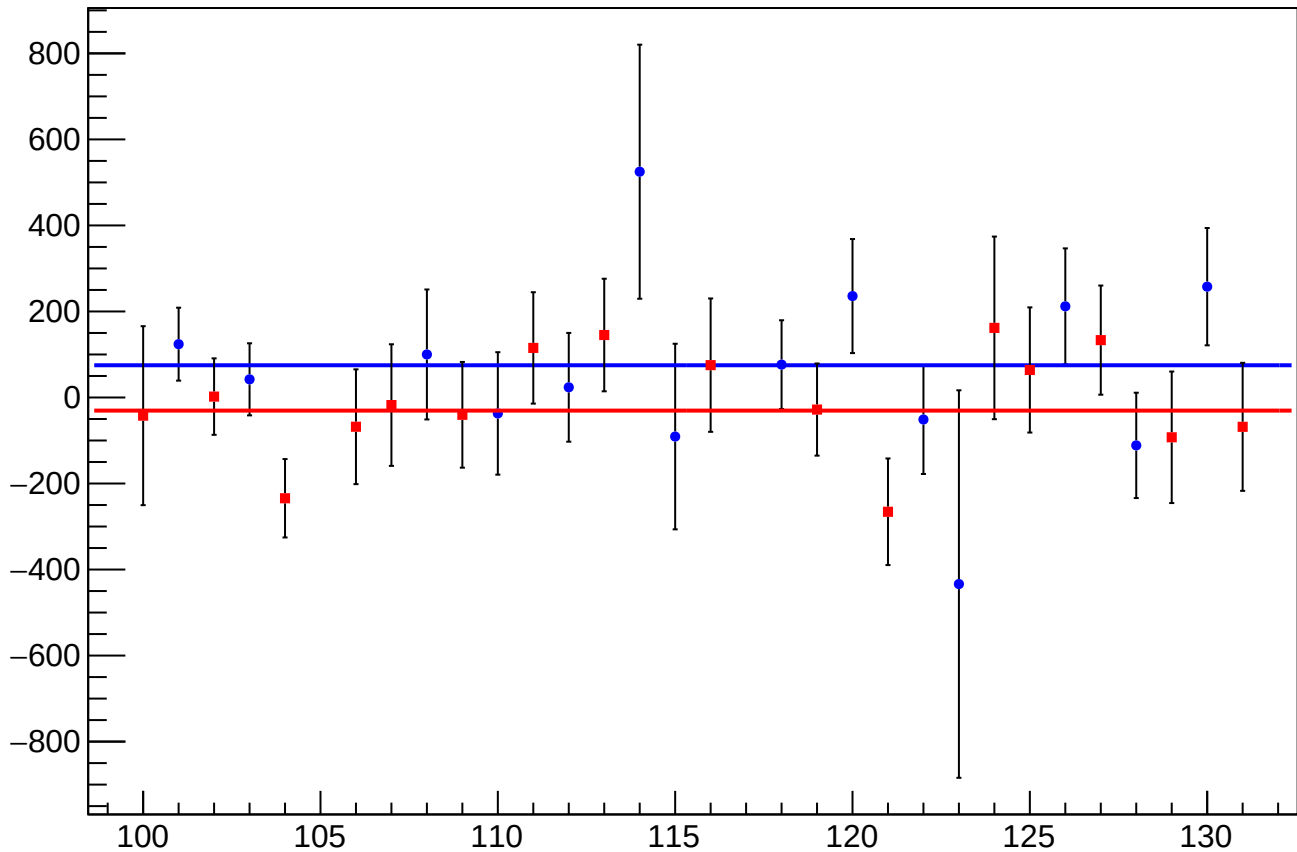
All: 2130.914+/-0.478  $\chi^2/\text{NDF}$ : 2715792.4/29

- 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\_bpm0r05X\_mean vs Slug



Right In: 74.918+/-34.022  $\chi^2/\text{NDF}$ : 13.1/13

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

Right Out: -30.488+/-32.043  $\chi^2/\text{NDF}$ : 15.5/15

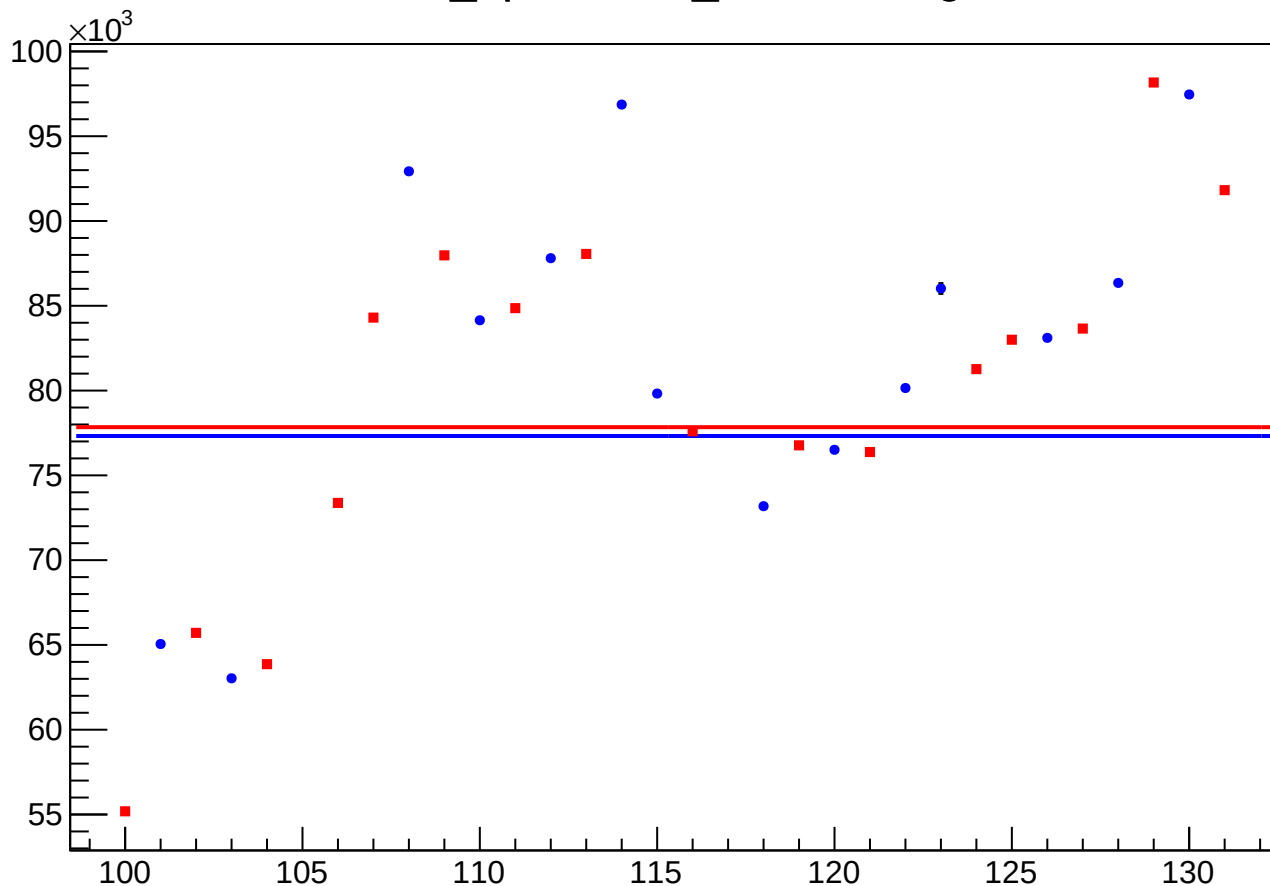
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 19.060+/-23.326  $\chi^2/\text{NDF}$ : 33.7/29

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

# diff\_bpm0r05X\_rms vs Slug



Right In: 77321.486+/-24.057  $\chi^2/\text{NDF}$ : 212004.1/13

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

Right Out: 77841.413+/-22.658  $\chi^2/\text{NDF}$ : 206803.2/15

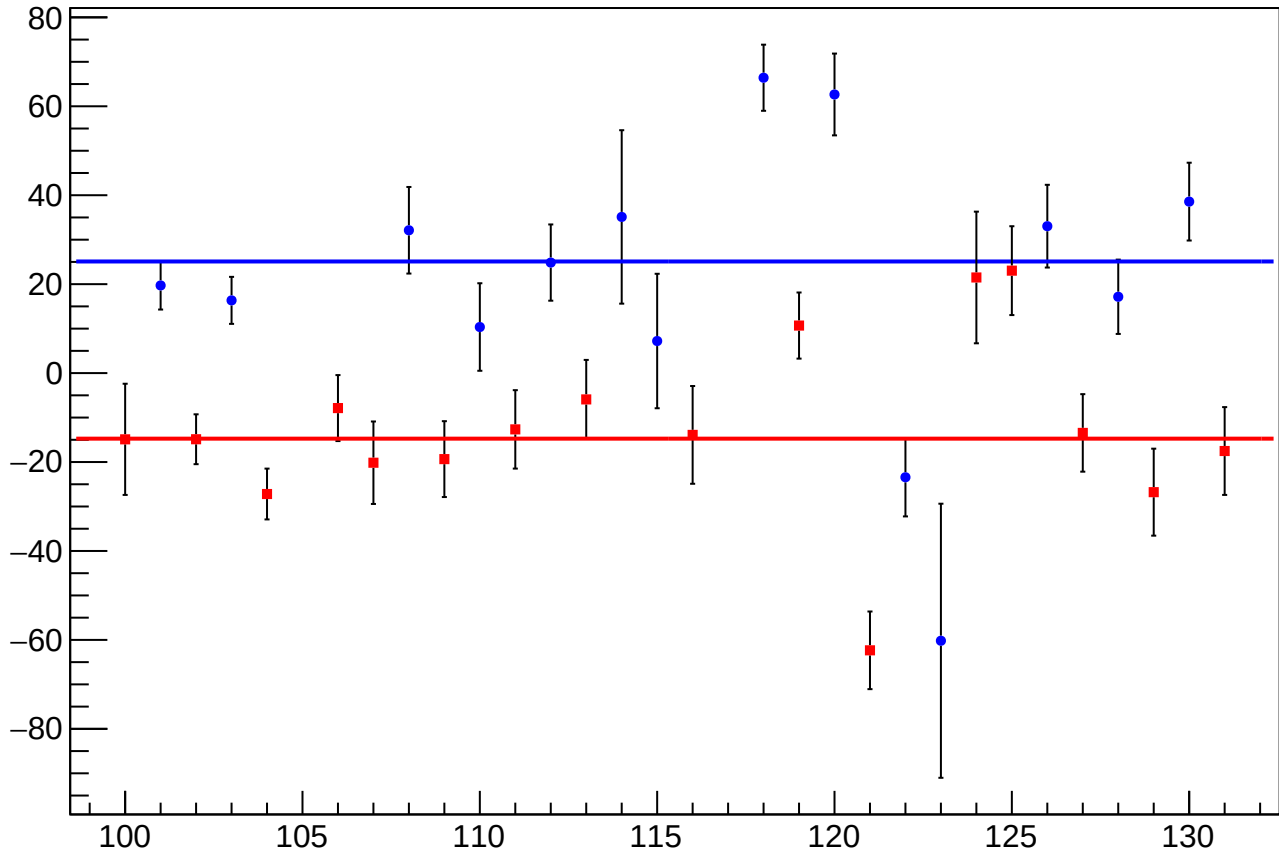
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 77597.009+/-16.494  $\chi^2/\text{NDF}$ : 419054.8/2

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

# diff\_bpm0r05Y\_mean vs Slug



Right In: 25.101 $\pm$ 2.270  $\chi^2$ /NDF: 97.7/13

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

Right Out: -14.743 $\pm$ 2.104  $\chi^2$ /NDF: 70.6/15

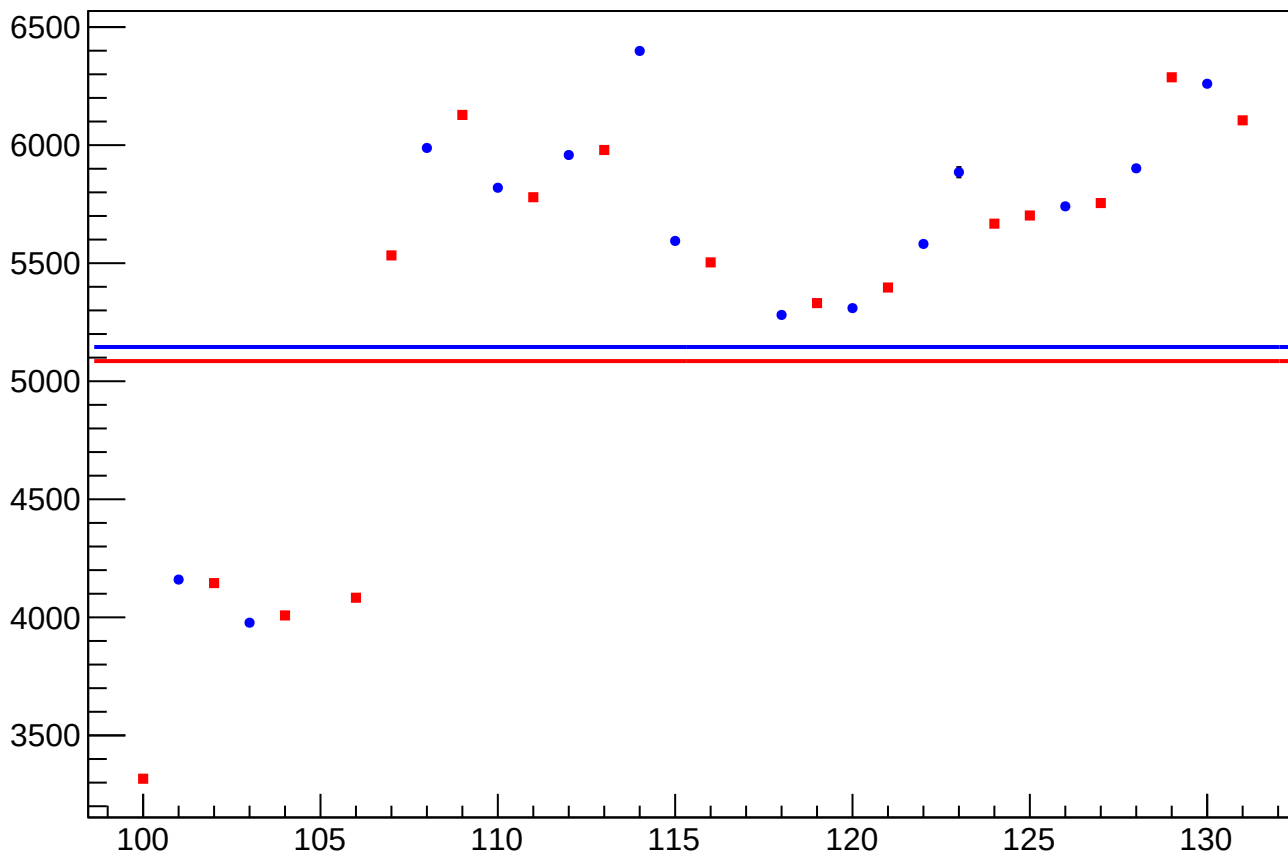
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 3.671 $\pm$ 1.543  $\chi^2$ /NDF: 334.1/29

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

# diff\_bpm0r05Y\_rms vs Slug



Right In: 5145.001 $\pm$ 1.605  $\chi^2$ /NDF: 280490.9/13

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

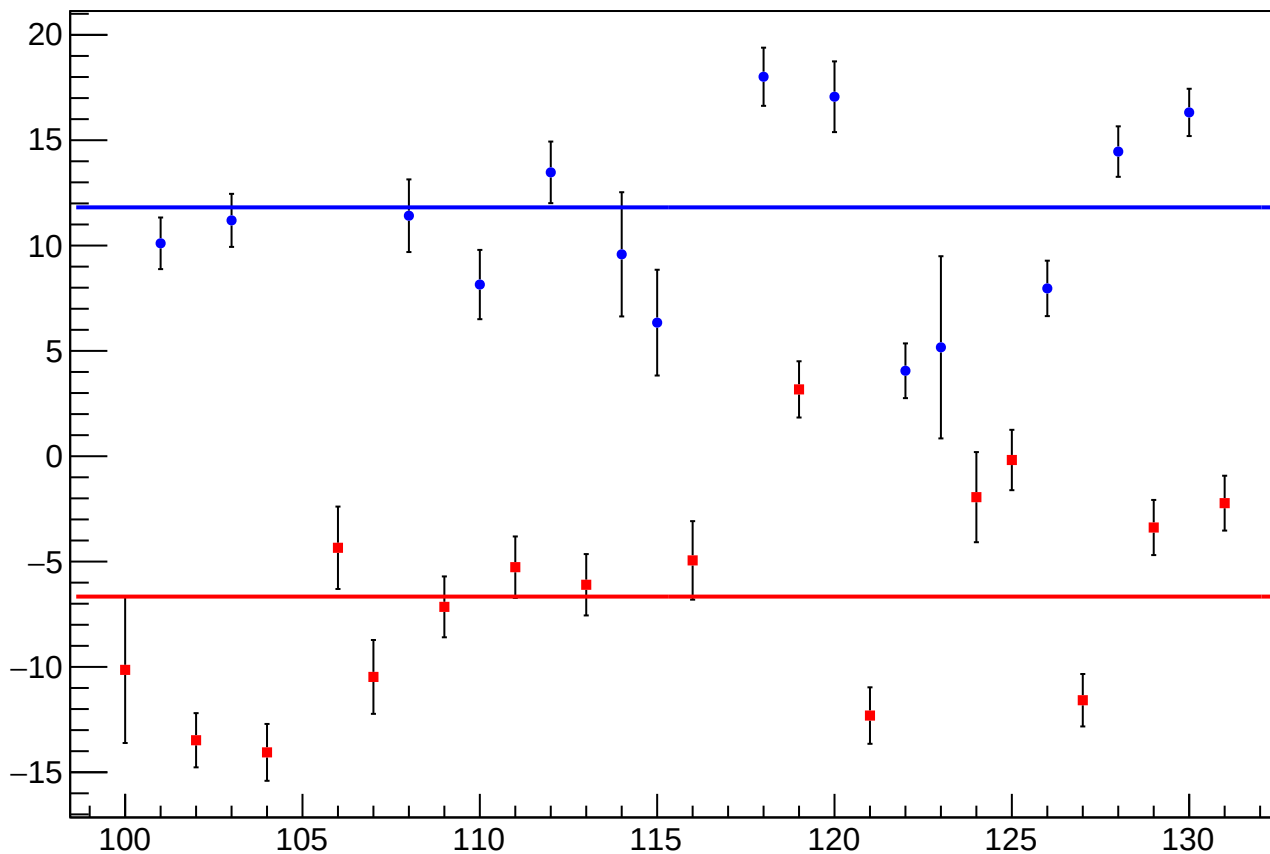
Right Out: 5085.393 $\pm$ 1.488  $\chi^2$ /NDF: 352747.5/15

All: 5112.941 $\pm$ 1.091  $\chi^2$ /NDF: 633980.2/29

- 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\_bpm2i01X\_mean vs Slug



Right In: 11.813 $\pm$ 0.397  $\chi^2$ /NDF: 111.3/13

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

Right Out: -6.662 $\pm$ 0.373  $\chi^2$ /NDF: 198.2/15

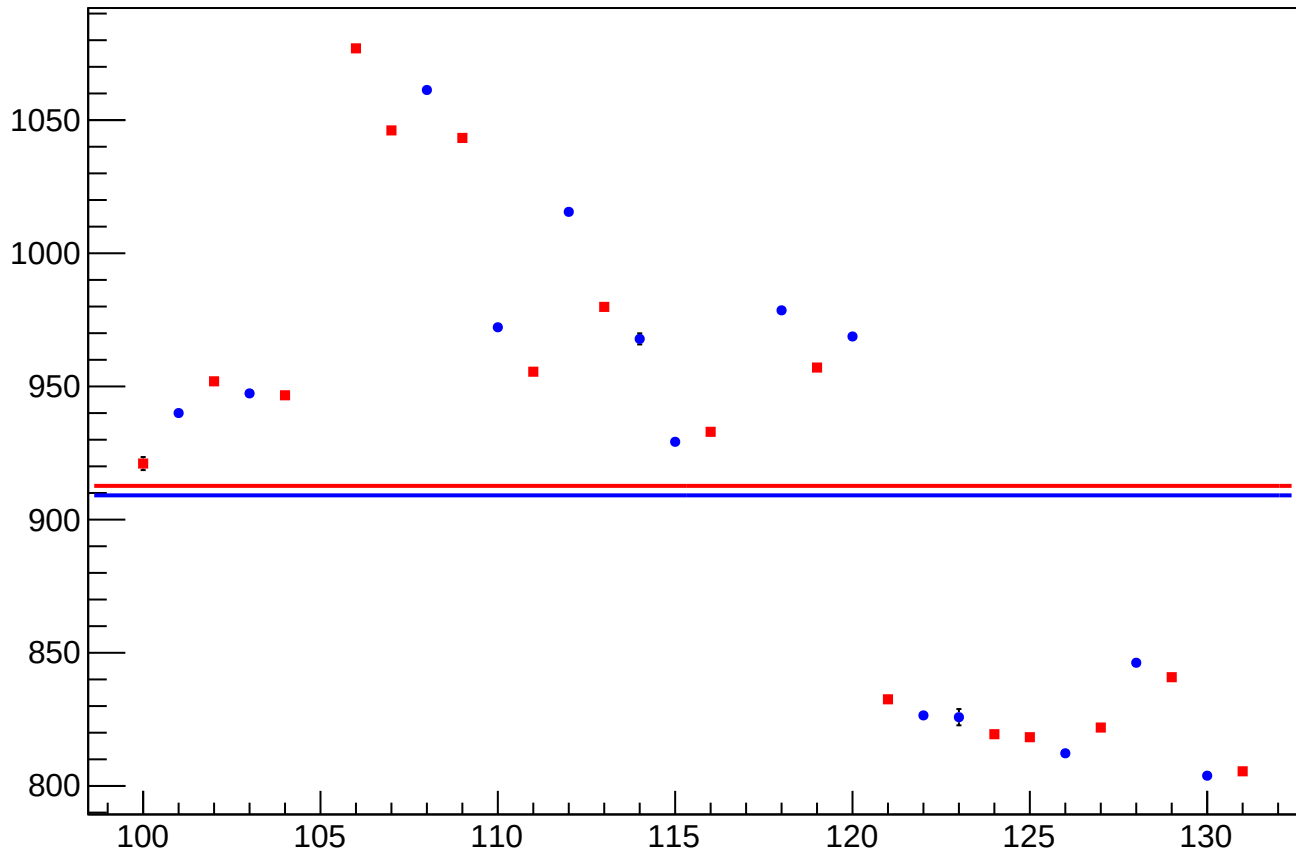
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 2.003 $\pm$ 0.272  $\chi^2$ /NDF: 1458.2/29

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

# diff\_bpm2i01X\_rms vs Slug



Right In: 909.109 $\pm$ 0.281  $\chi^2$ /NDF: 83522.8/13

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

Right Out: 912.670 $\pm$ 0.264  $\chi^2$ /NDF: 103472.0/15

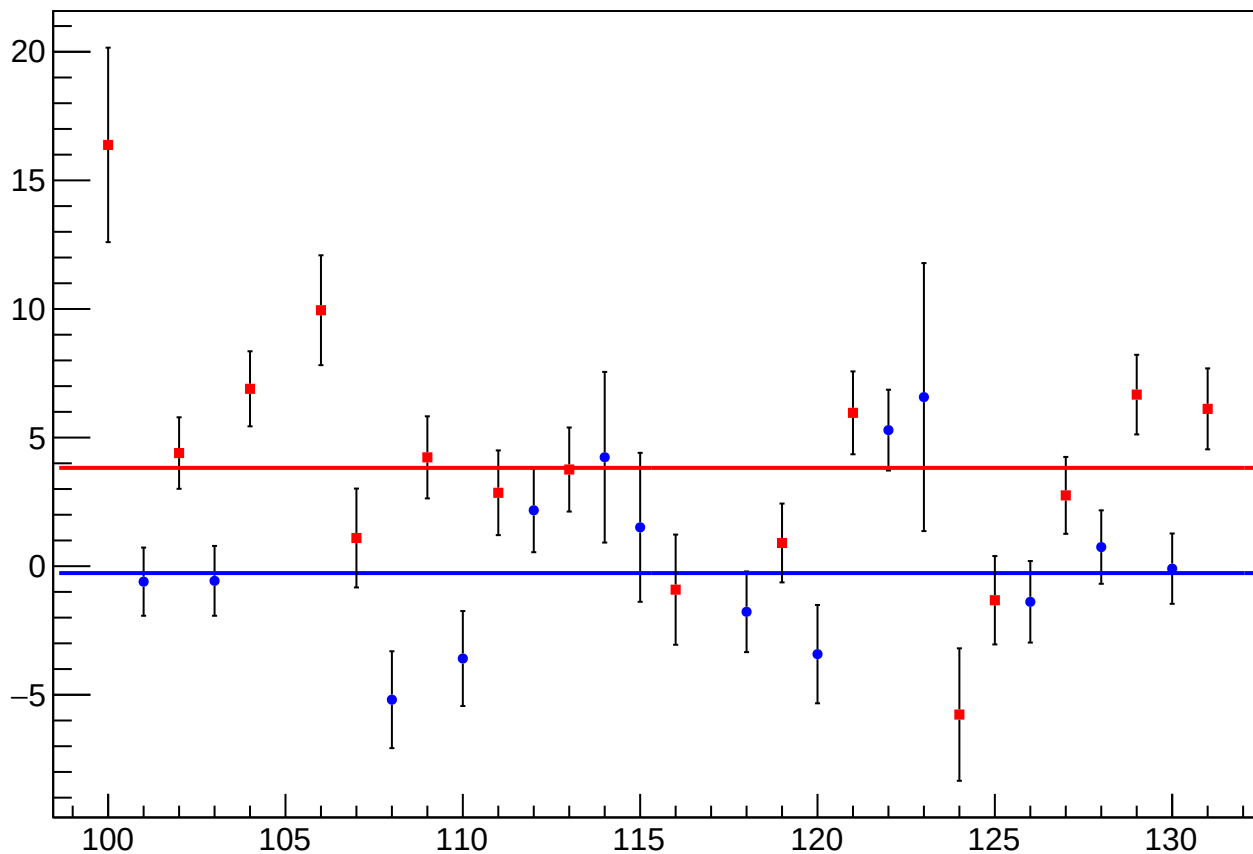
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 911.000 $\pm$ 0.192  $\chi^2$ /NDF: 187080.2/29

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

# diff\_bpm2i01Y\_mean vs Slug



Right In:  $-0.269 \pm 0.456$   $\chi^2/\text{NDF}$ : 33.5/13

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

Right Out:  $3.822 \pm 0.428$   $\chi^2/\text{NDF}$ : 65.4/15

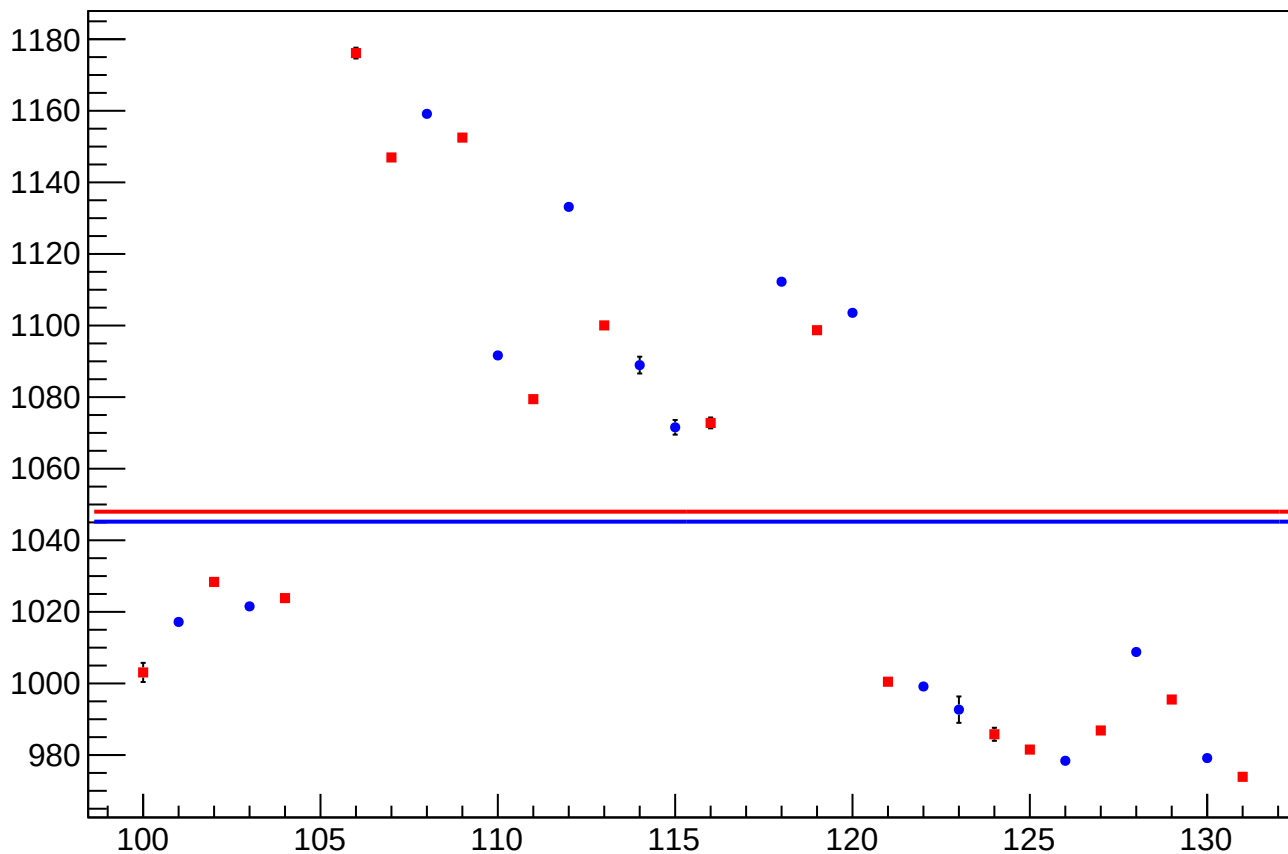
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $1.906 \pm 0.312$   $\chi^2/\text{NDF}$ : 141.9/29

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

# diff\_bpm2i01Y\_rms vs Slug



Right In: 1045.206 $\pm$ 0.322  $\chi^2$ /NDF: 33379.2/13

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

Right Out: 1047.995 $\pm$ 0.302  $\chi^2$ /NDF: 43487.9/15

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

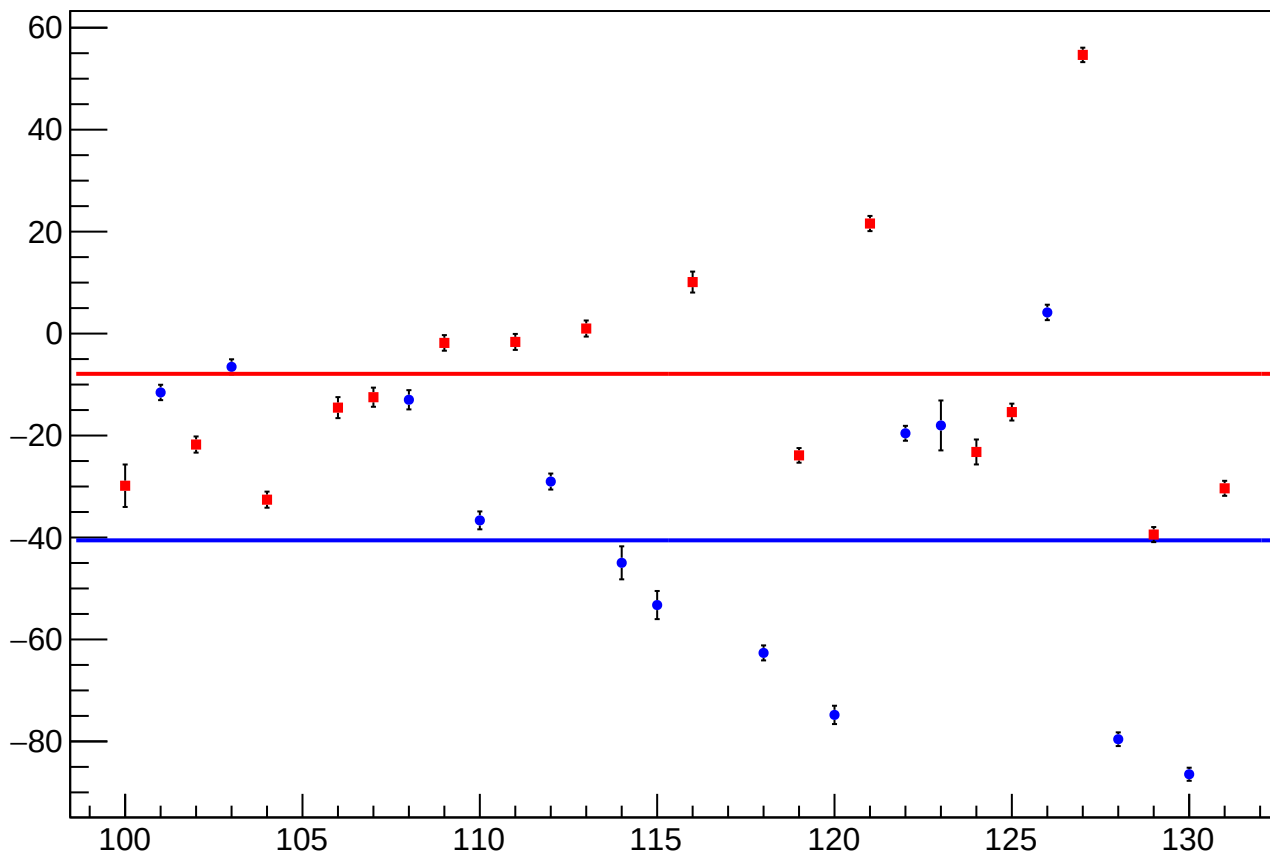
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1046.689 $\pm$ 0.220  $\chi^2$ /NDF: 76906.9/29

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



# diff\_bpm2i02X\_mean vs Slug



Right In:  $-40.559 \pm 0.447$   $\chi^2/\text{NDF}$ : 4997.1/13

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

Right Out:  $-7.896 \pm 0.418$   $\chi^2/\text{NDF}$ : 3714.0/15

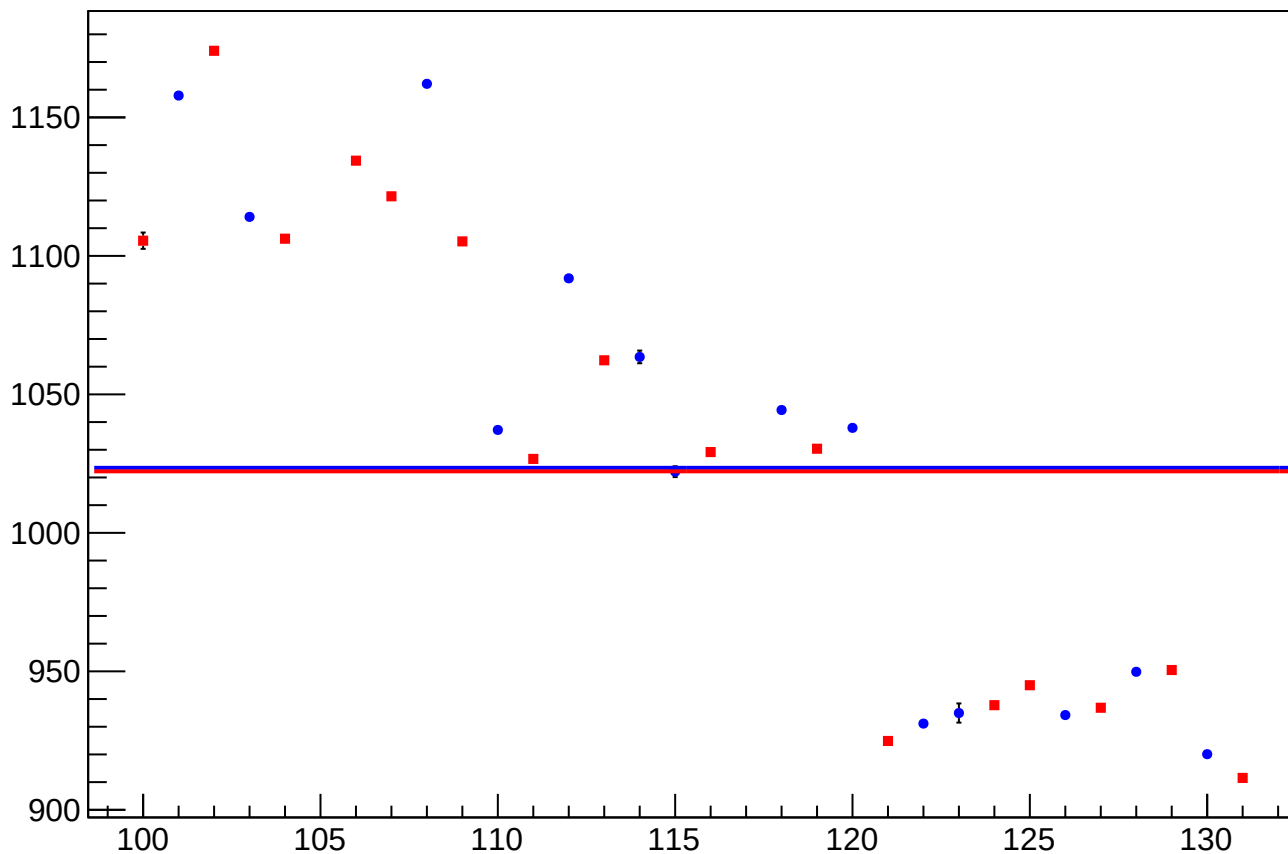
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-23.126 \pm 0.305$   $\chi^2/\text{NDF}$ : 11562.0/29

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

# diff\_bpm2i02X\_rms vs Slug



Right In: 1023.479 $\pm$ 0.316  $\chi^2$ /NDF: 73415.0/13

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

Right Out: 1022.210 $\pm$ 0.295  $\chi^2$ /NDF: 82087.2/15

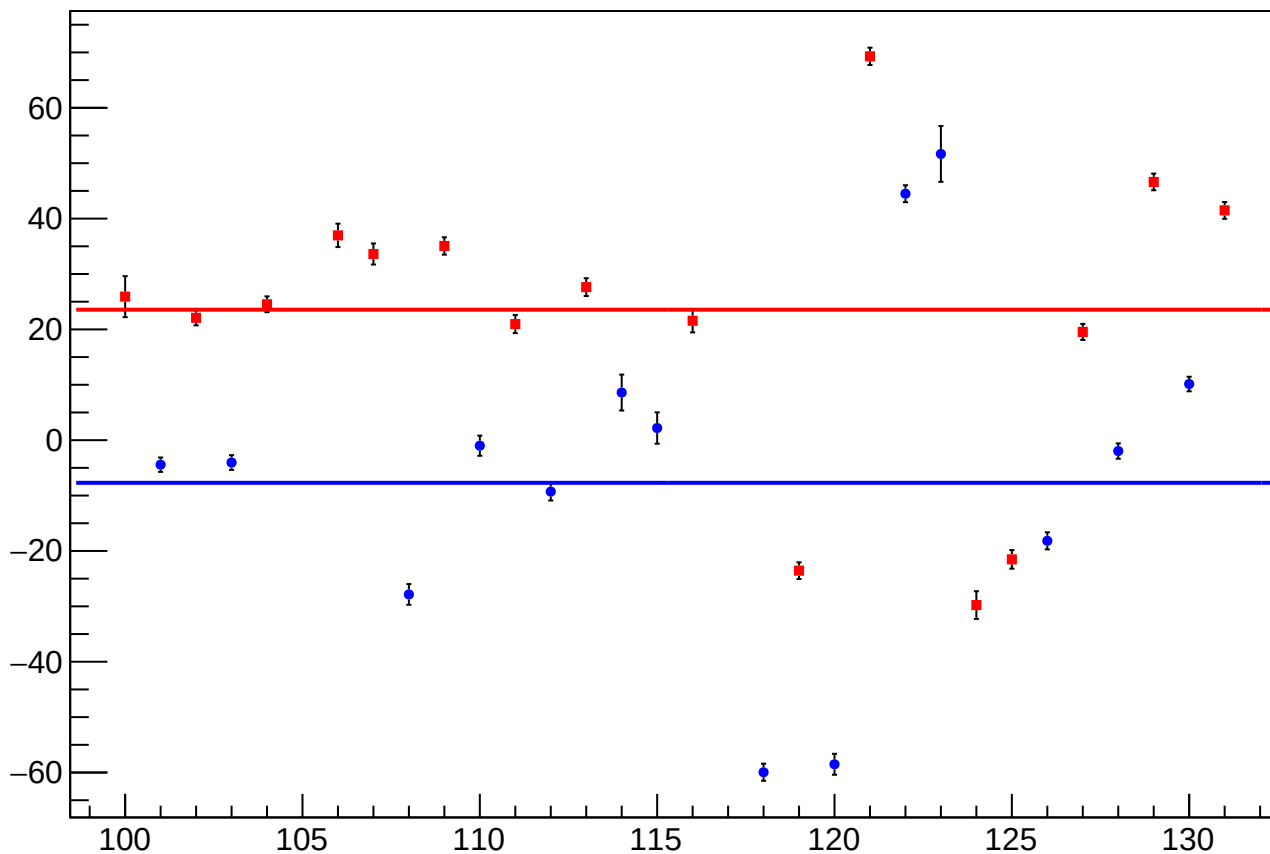
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1022.802 $\pm$ 0.216  $\chi^2$ /NDF: 155510.8/29

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

# diff\_bpm2i02Y\_mean vs Slug



Right In: -7.698+/-0.445  $\chi^2/\text{NDF}$ : 3603.9/13

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

Right Out: 23.556+/-0.418  $\chi^2/\text{NDF}$ : 3526.9/15

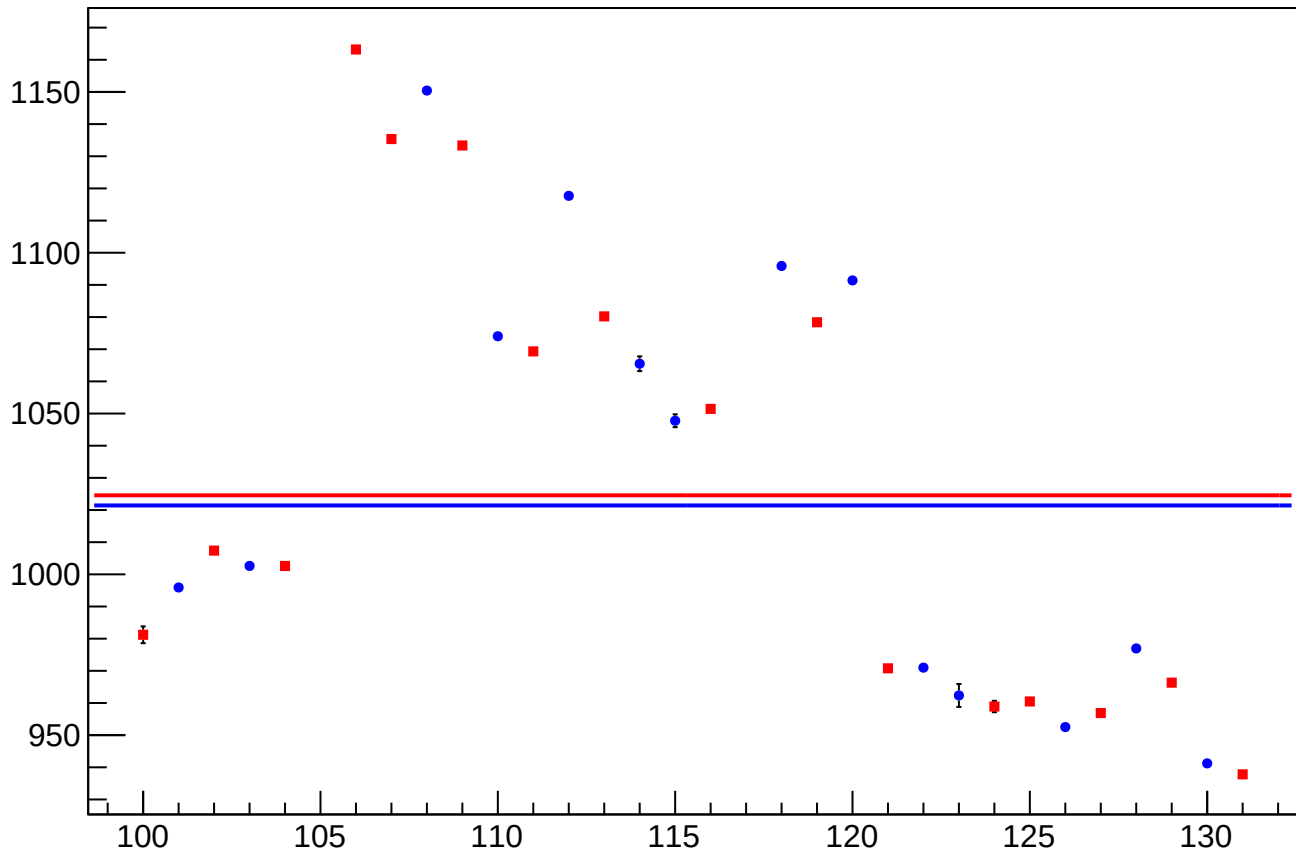
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 8.911+/-0.305  $\chi^2/\text{NDF}$ : 9748.3/29

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

# diff\_bpm2i02Y\_rms vs Slug



Right In: 1021.424+/-0.315  $\chi^2/\text{NDF}$ : 43433.5/13

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

Right Out: 1024.571+/-0.296  $\chi^2/\text{NDF}$ : 53443.1/15

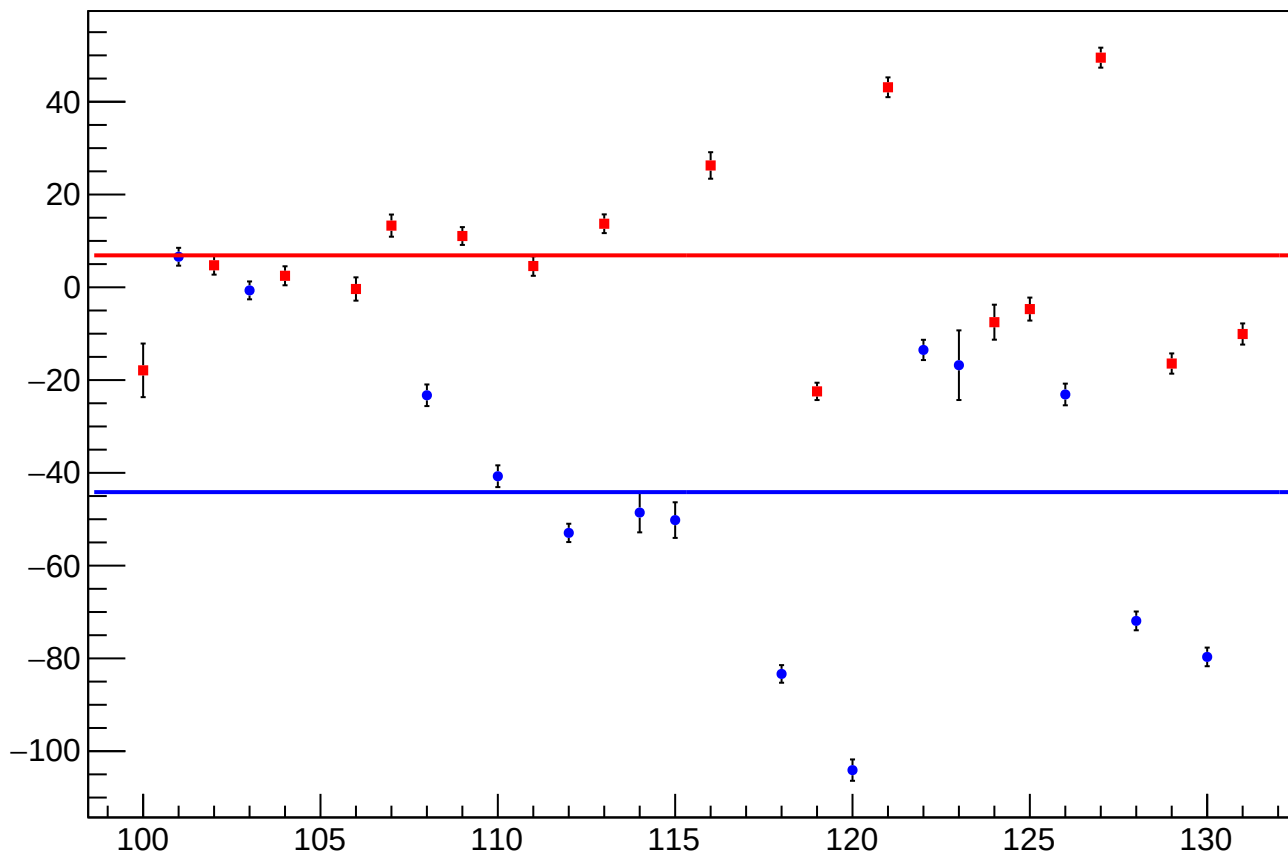
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1023.097+/-0.216  $\chi^2/\text{NDF}$ : 96929.7/29

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

# diff\_bpm0i02X\_mean vs Slug



Right In:  $-44.153 \pm 0.614$   $\chi^2/\text{NDF}$ : 3206.3/13

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

Right Out:  $6.887 \pm 0.571$   $\chi^2/\text{NDF}$ : 1236.0/15

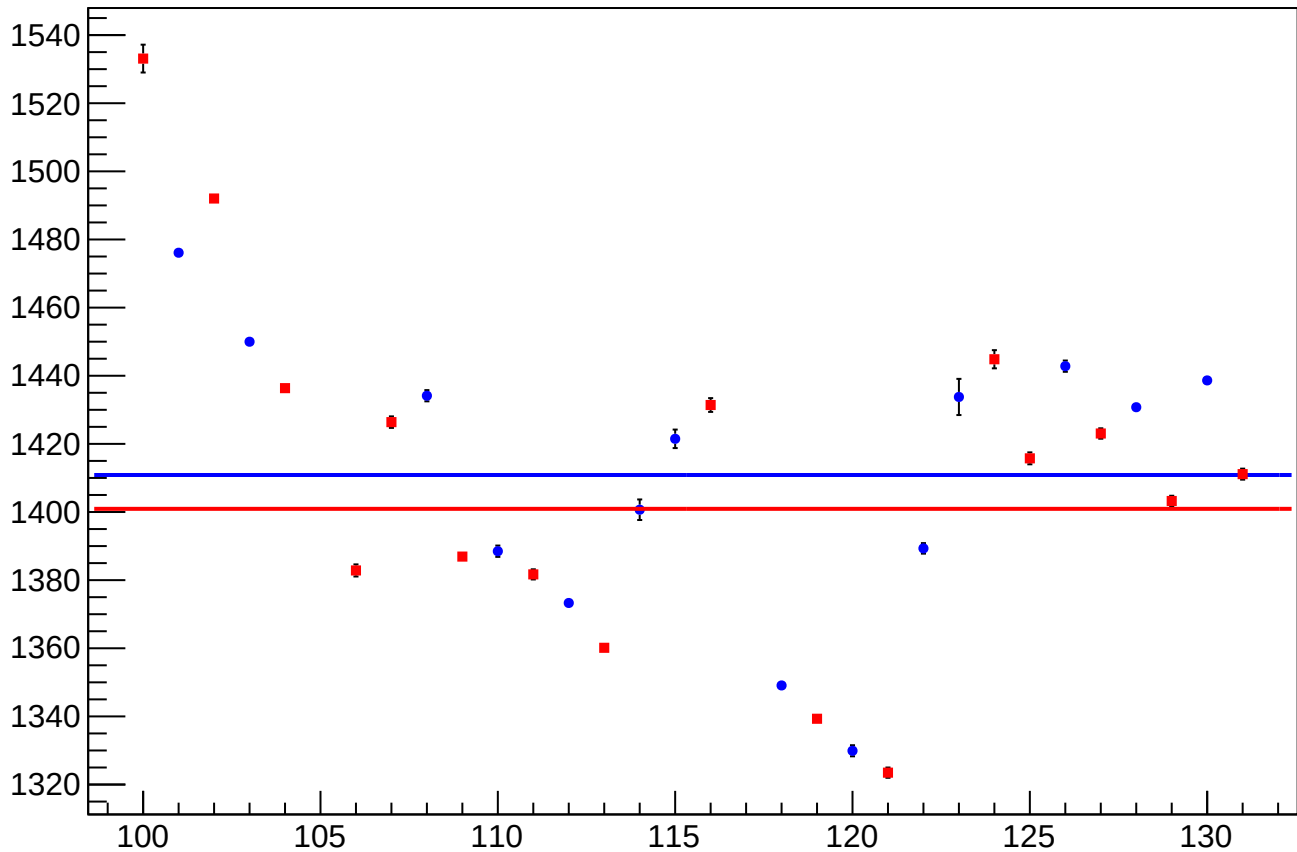
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-16.774 \pm 0.418$   $\chi^2/\text{NDF}$ : 8149.4/29

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

# diff\_bpm0i02X\_rms vs Slug



Right In: 1410.867 $\pm$ 0.434  $\chi^2$ /NDF: 10007.5/13

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

Right Out: 1400.932 $\pm$ 0.404  $\chi^2$ /NDF: 12786.0/15

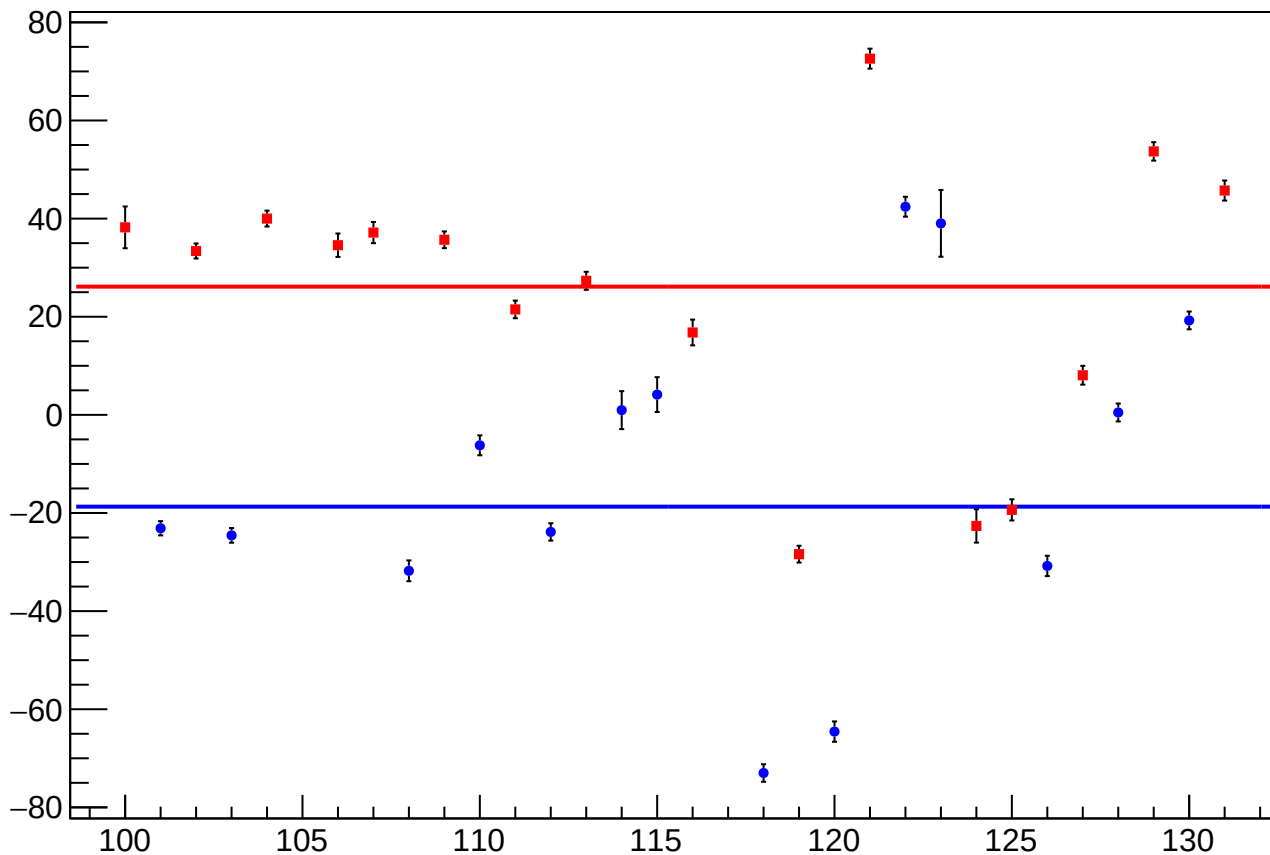
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1405.538 $\pm$ 0.296  $\chi^2$ /NDF: 23074.5/29

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

# diff\_bpm0i02Y\_mean vs Slug



Right In: -18.709 $\pm$ 0.535  $\chi^2$ /NDF: 3148.2/13

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

Right Out: 26.135 $\pm$ 0.498  $\chi^2$ /NDF: 2775.1/15

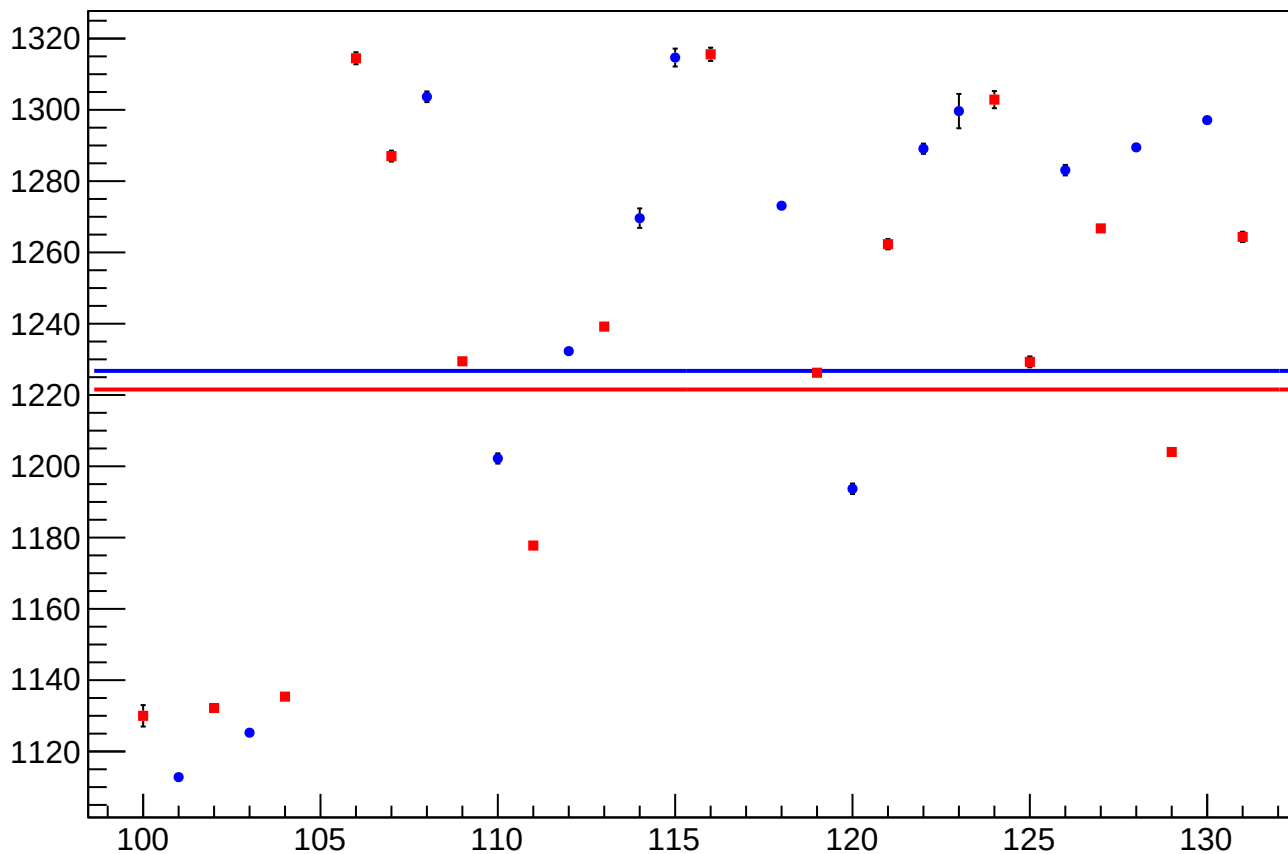
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 5.288 $\pm$ 0.365  $\chi^2$ /NDF: 9687.3/29

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

# diff\_bpm0i02Y\_rms vs Slug



Right In: 1226.762 $\pm$ 0.378  $\chi^2$ /NDF: 36803.0/13

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

Right Out: 1221.542 $\pm$ 0.352  $\chi^2$ /NDF: 26416.4/15

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

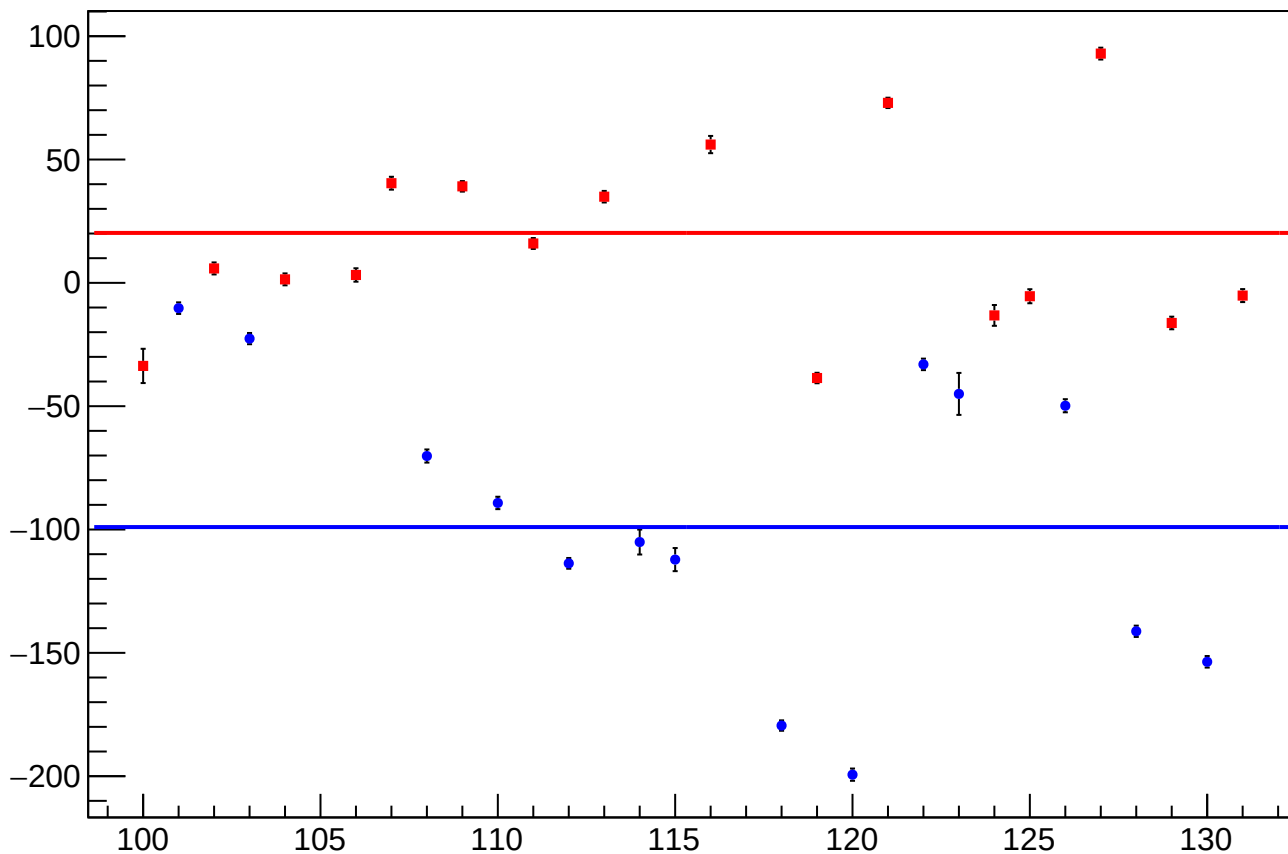
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1223.969 $\pm$ 0.258  $\chi^2$ /NDF: 63321.4/29

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



# diff\_bpm0i02aX\_mean vs Slug



Right In:  $-99.004 \pm 0.696$   $\chi^2/\text{NDF}: 7892.7/13$

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

Right Out:  $20.243 \pm 0.642$   $\chi^2/\text{NDF}: 3234.6/15$

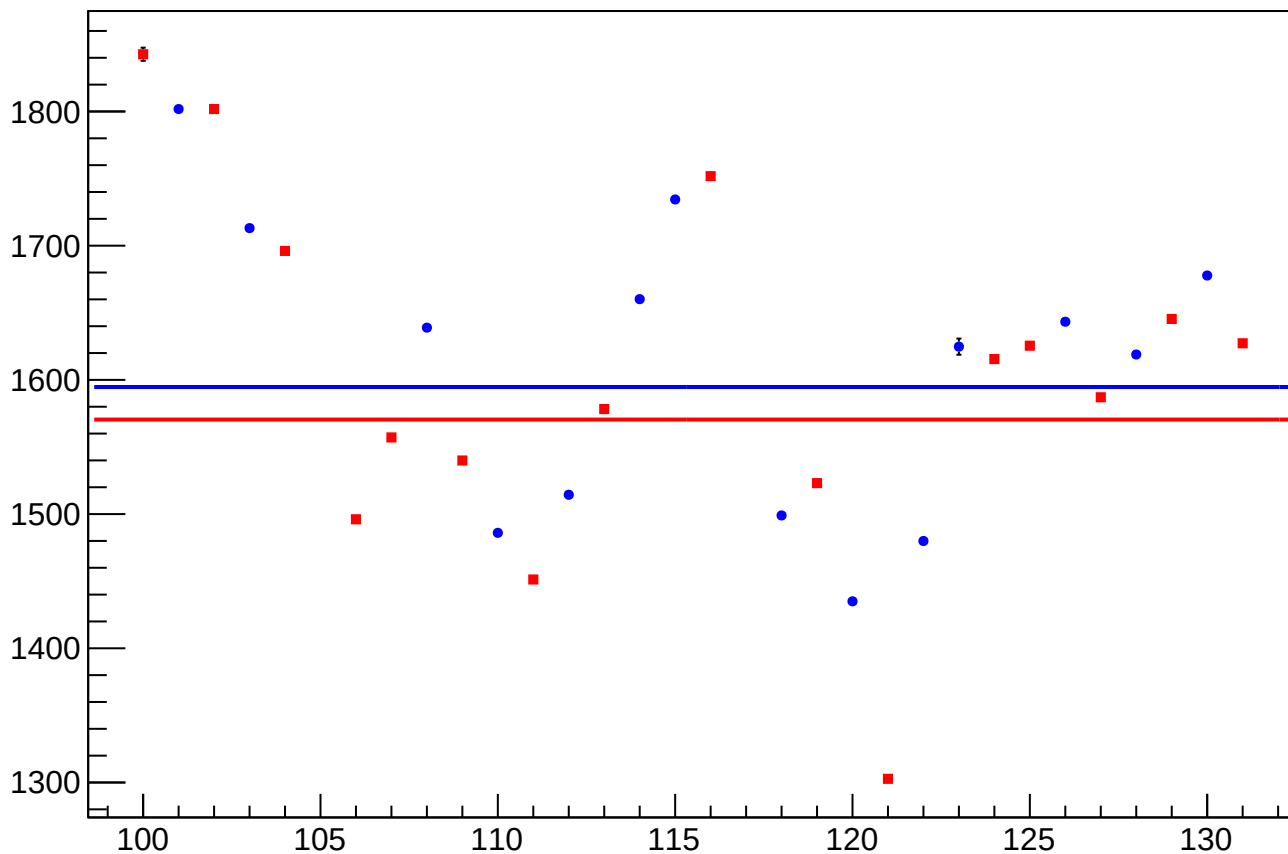
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

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

All:  $-34.583 \pm 0.472$   $\chi^2/\text{NDF}: 27004.5/29$

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

# diff\_bpm0i02aX\_rms vs Slug



Right In: 1594.702 $\pm$ 0.492  $\chi^2$ /NDF: 50733.0/13

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

Right Out: 1570.430 $\pm$ 0.454  $\chi^2$ /NDF: 76901.3/15

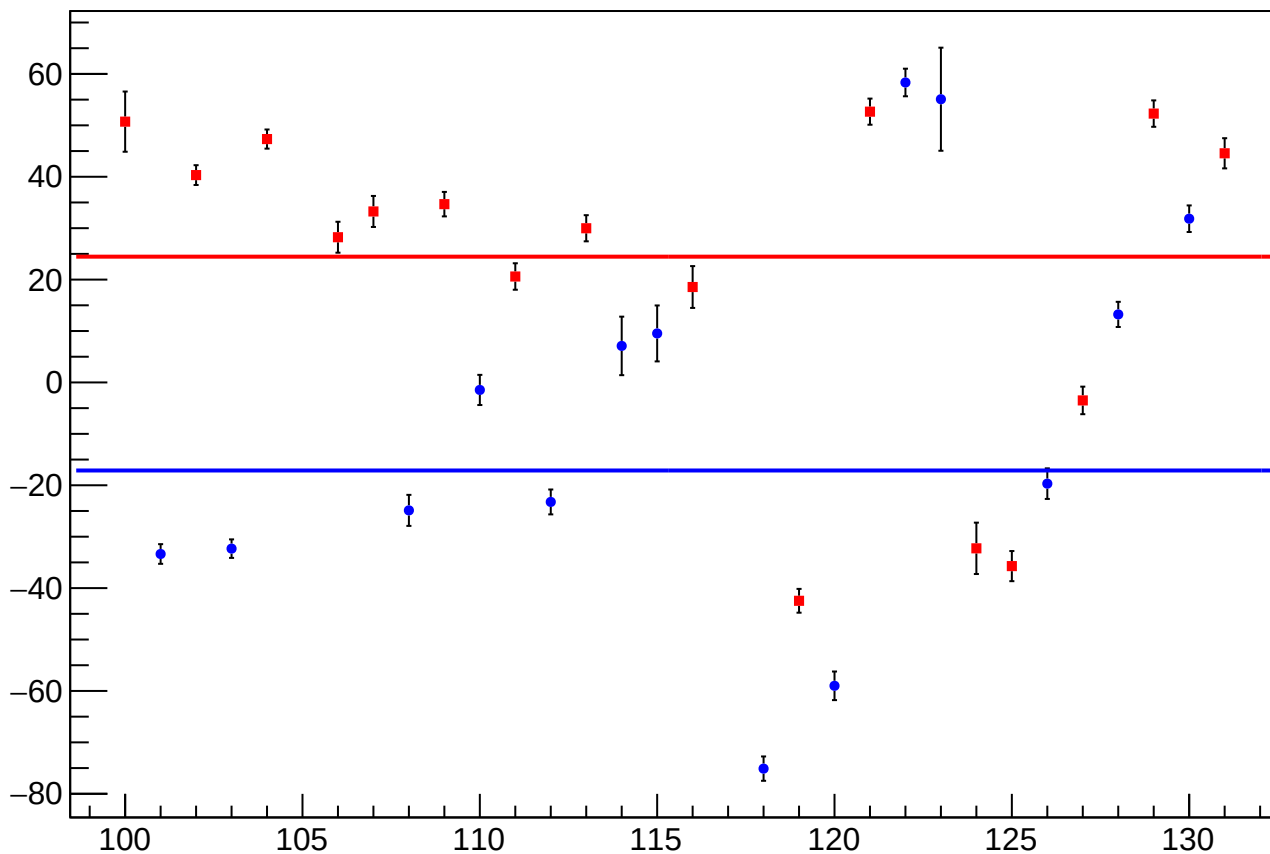
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1581.590 $\pm$ 0.334  $\chi^2$ /NDF: 128950.0/29

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

# diff\_bpm0i02aY\_mean vs Slug



Right In: -17.125+/-0.720  $\chi^2/\text{NDF}$ : 2409.6/13

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

Right Out: 24.461+/-0.666  $\chi^2/\text{NDF}$ : 2059.6/15

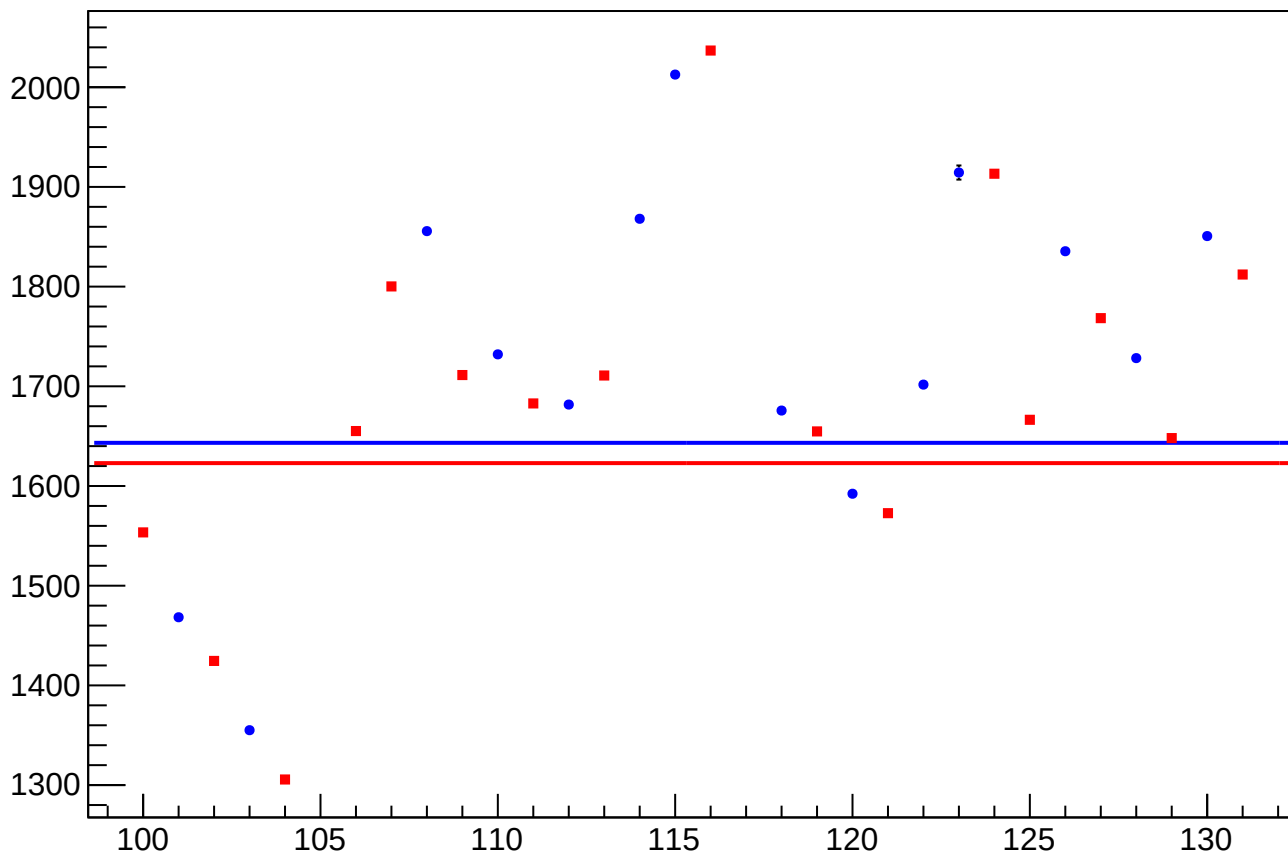
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 5.291+/-0.489  $\chi^2/\text{NDF}$ : 6267.3/29

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

# diff\_bpm0i02aY\_rms vs Slug



Right In: 1643.301+/-0.509  $\chi^2/\text{NDF}$ : 119585.7/13

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

Right Out: 1622.951+/-0.471  $\chi^2/\text{NDF}$ : 136446.9/15

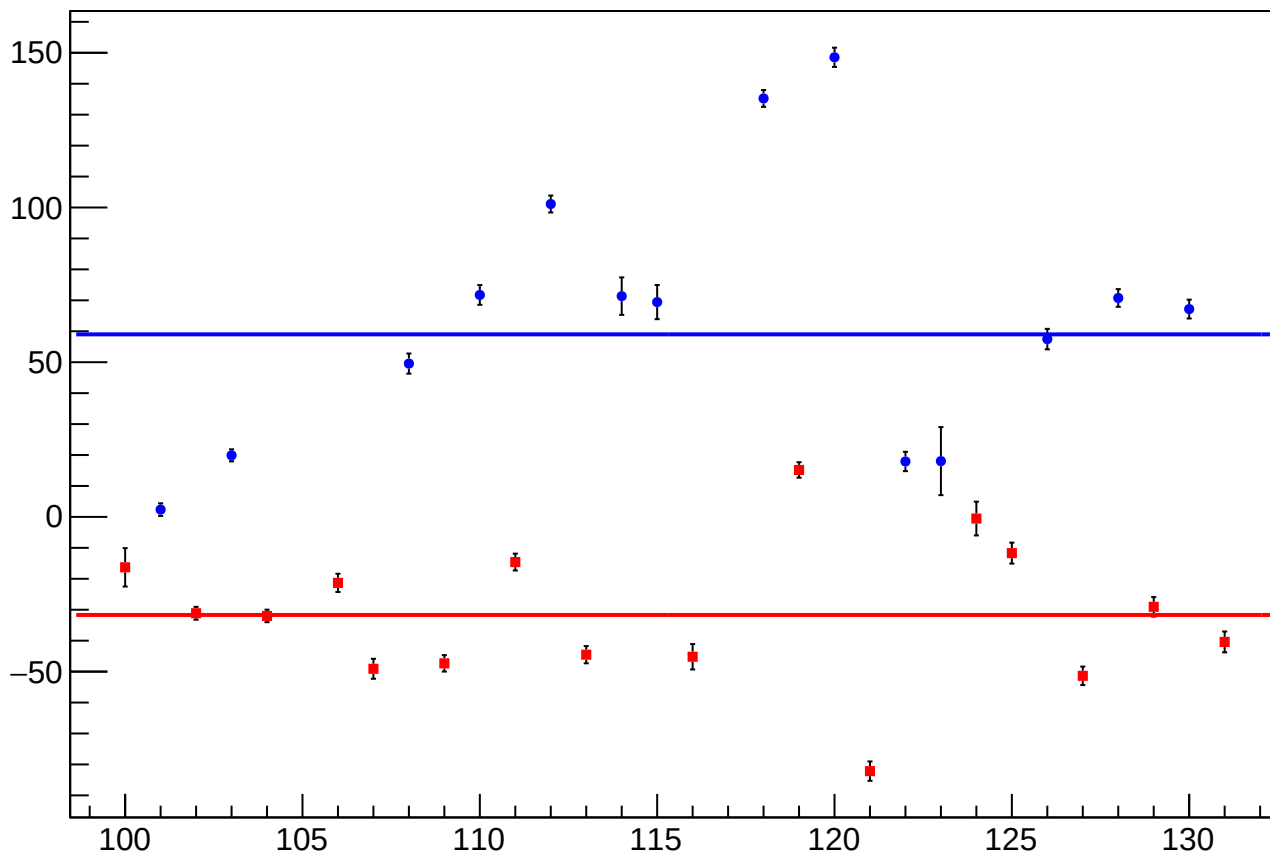
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1632.332+/-0.346  $\chi^2/\text{NDF}$ : 256893.8/29

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

# diff\_bpm0i05X\_mean vs Slug



Right In: 58.996 $\pm$ 0.801  $\chi^2$ /NDF: 3266.6/13

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

Right Out: -31.690 $\pm$ 0.733  $\chi^2$ /NDF: 882.4/15

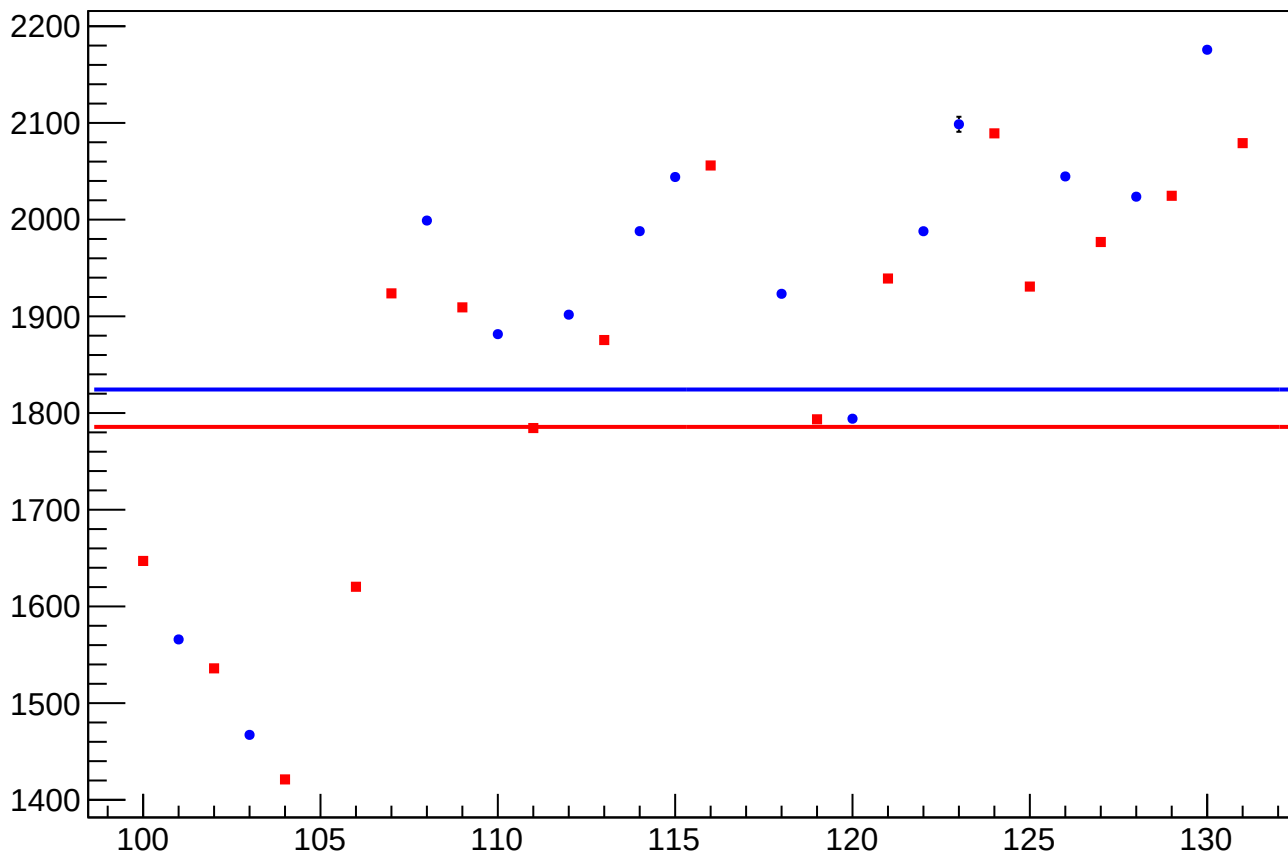
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 9.660 $\pm$ 0.541  $\chi^2$ /NDF: 11124.9/29

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

# diff\_bpm0i05X\_rms vs Slug



Right In: 1824.325+/-0.566  $\chi^2/\text{NDF}$ : 166552.3/13

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

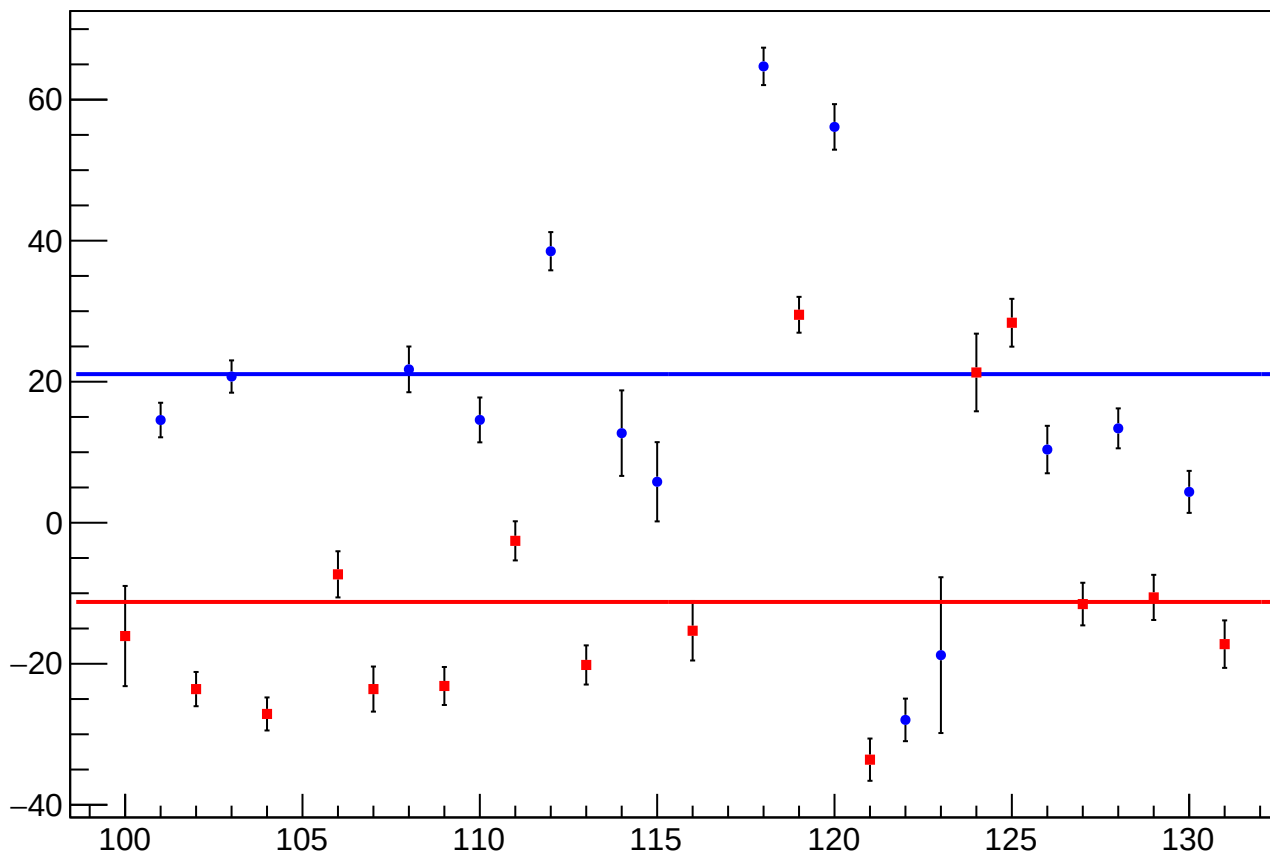
Right Out: 1785.658+/-0.518  $\chi^2/\text{NDF}$ : 169248.2/15

All: 1803.289+/-0.382  $\chi^2/\text{NDF}$ : 338336.9/29

- 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\_bpm0i05Y\_mean vs Slug



Right In: 21.075+/-0.837  $\chi^2$ /NDF: 776.3/13

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

Right Out: -11.233+/-0.768  $\chi^2$ /NDF: 616.3/15

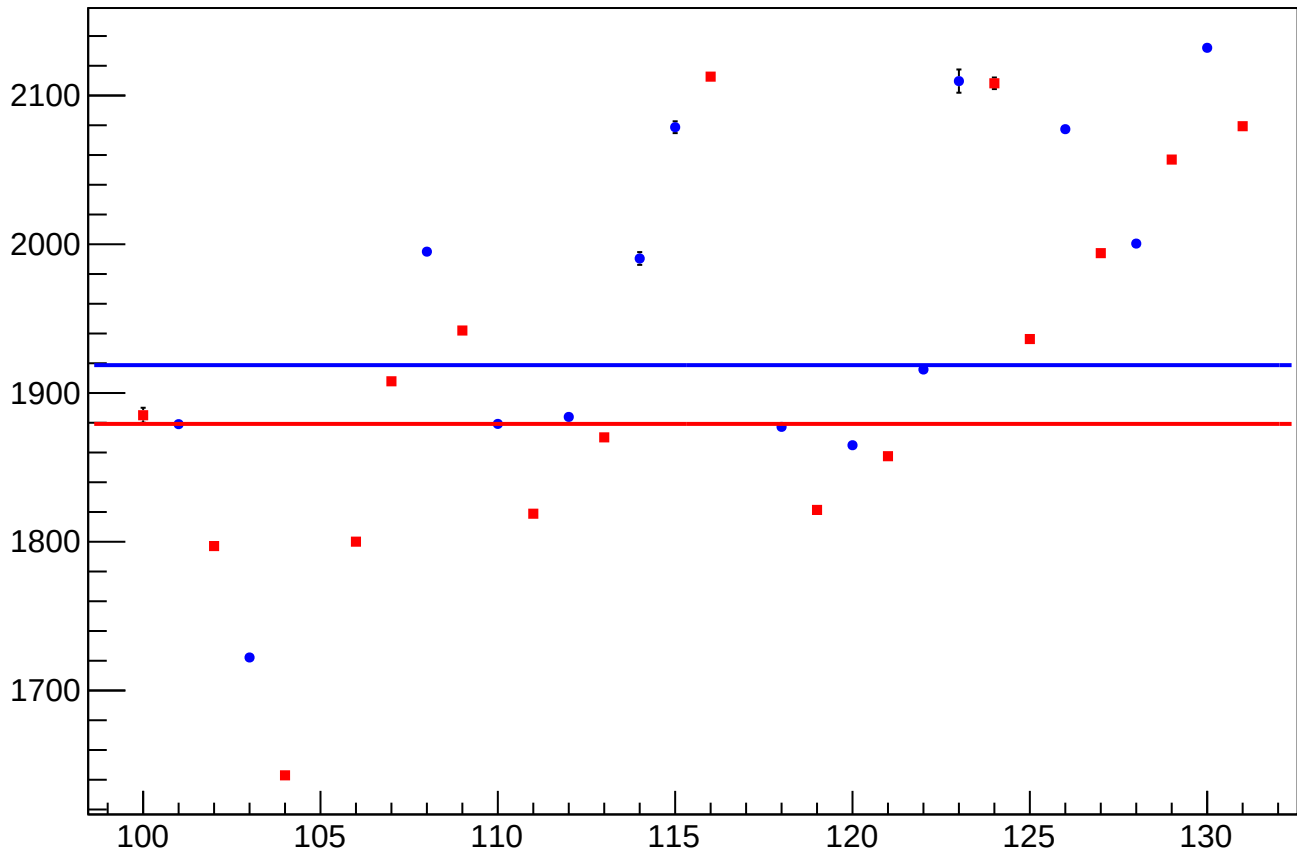
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: 3.528+/-0.566  $\chi^2$ /NDF: 2202.1/29

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

# diff\_bpm0i05Y\_rms vs Slug



Right In: 1918.736 $\pm$ 0.592  $\chi^2$ /NDF: 36917.6/13

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

Right Out: 1879.229 $\pm$ 0.543  $\chi^2$ /NDF: 53425.9/15

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

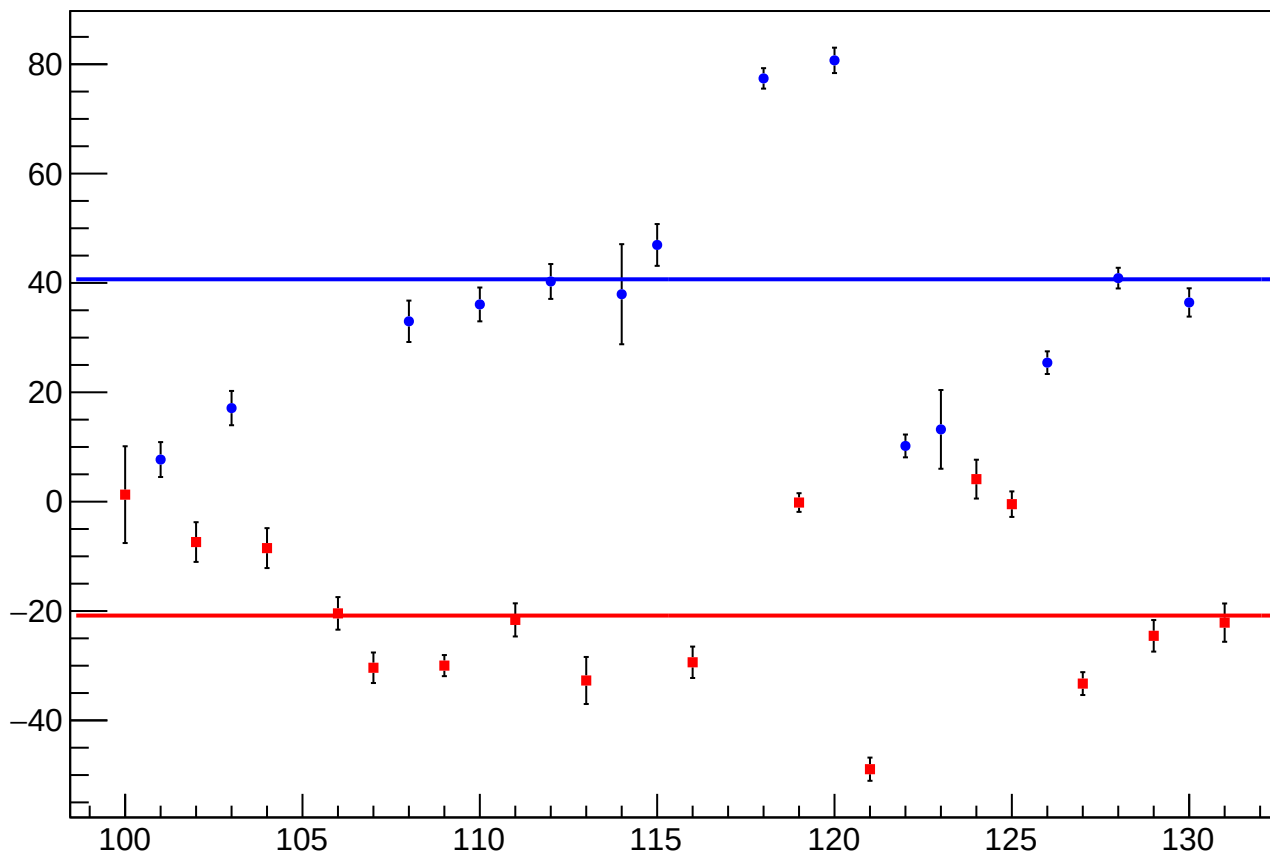
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1897.279 $\pm$ 0.400  $\chi^2$ /NDF: 92764.4/29

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



# diff\_bpm0i07X\_mean vs Slug



Right In: 40.667 $\pm$ 0.719  $\chi^2$ /NDF: 1140.2/13

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

Right Out: -20.832 $\pm$ 0.672  $\chi^2$ /NDF: 566.7/15

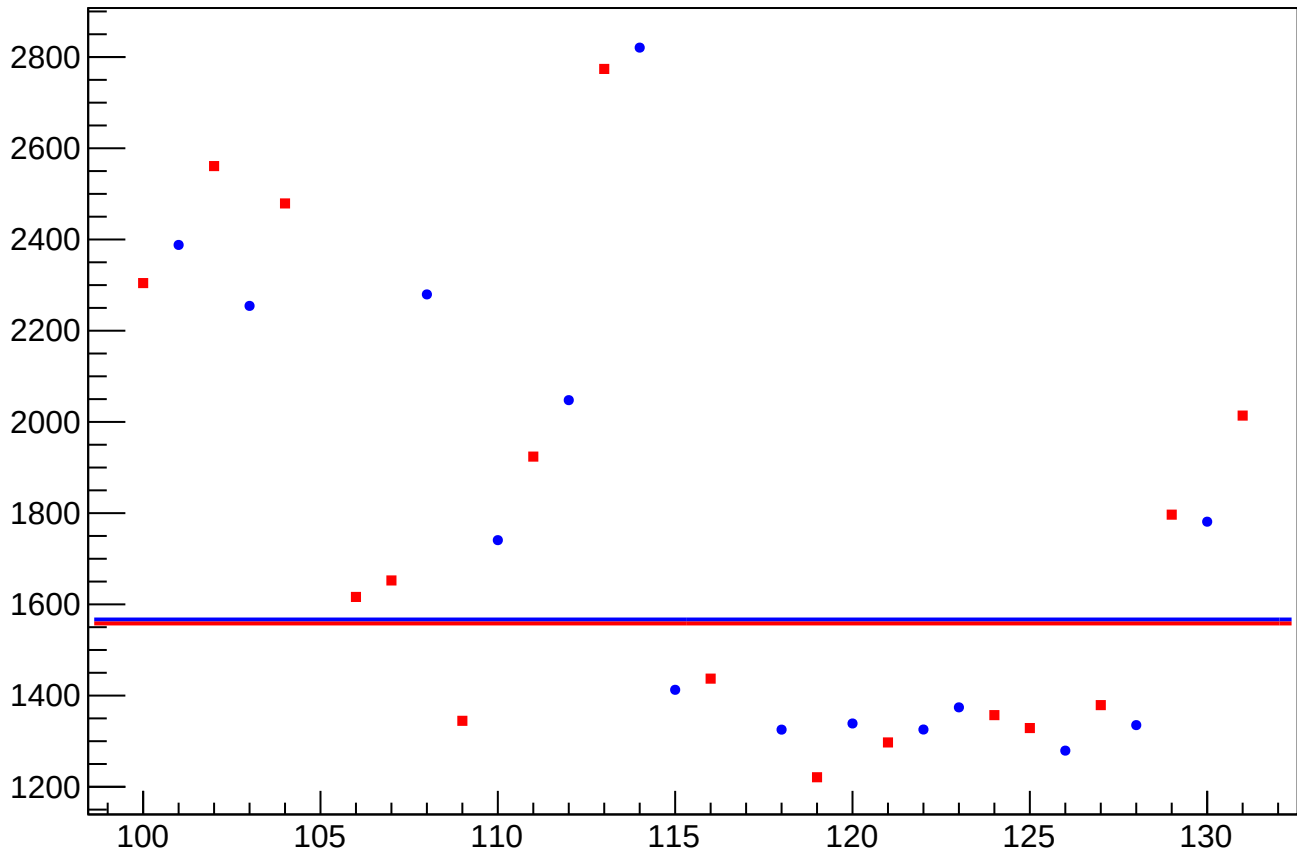
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 7.838 $\pm$ 0.491  $\chi^2$ /NDF: 5613.0/29

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

# diff\_bpm0i07X\_rms vs Slug



Right In: 1566.782 $\pm$ 0.508  $\chi^2$ /NDF: 554880.6/13

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

Right Out: 1558.146 $\pm$ 0.475  $\chi^2$ /NDF: 709965.8/15

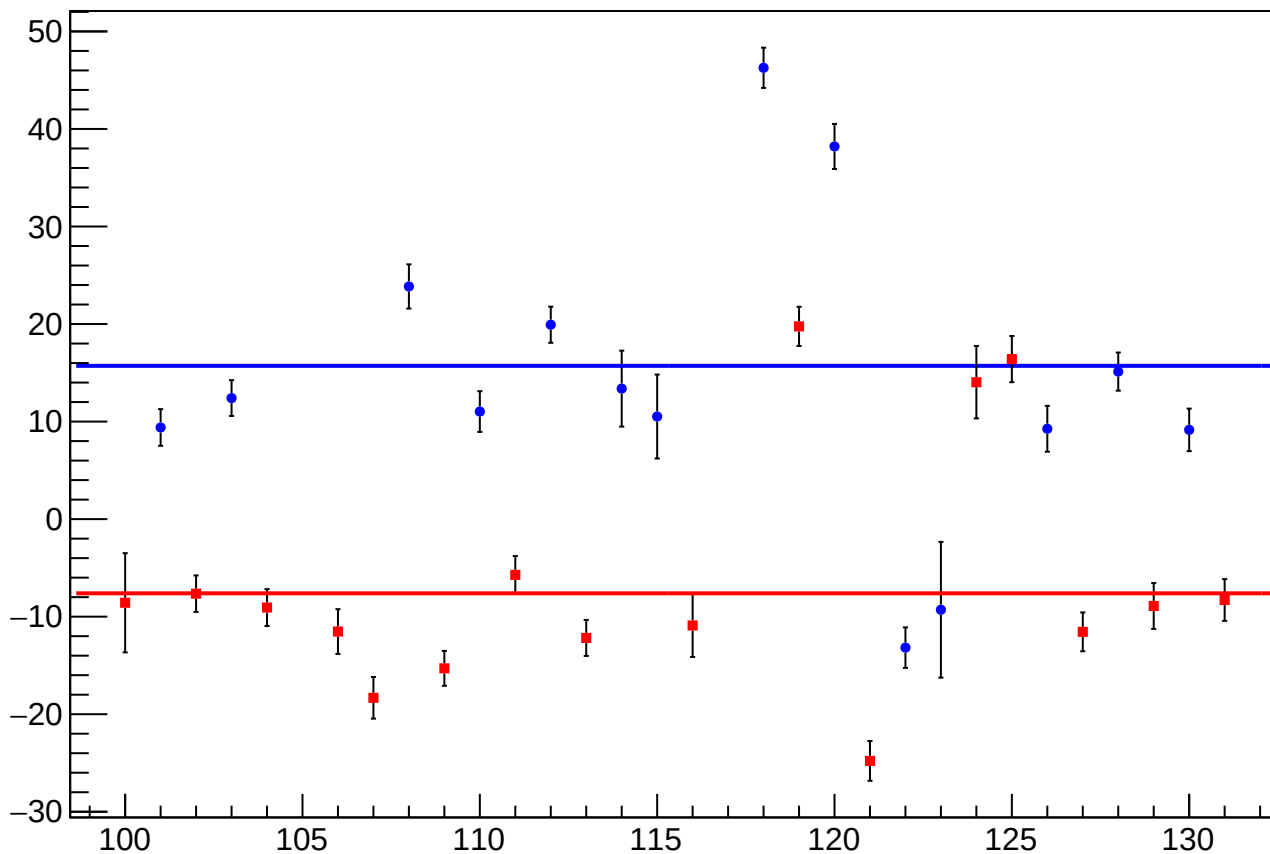
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1562.172 $\pm$ 0.347  $\chi^2$ /NDF: 1265000.4/29

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

# diff\_bpm0i07Y\_mean vs Slug



Right In: 15.715+/-0.604  $\chi^2$ /NDF: 576.8/13

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

Right Out: -7.607+/-0.545  $\chi^2$ /NDF: 452.7/15

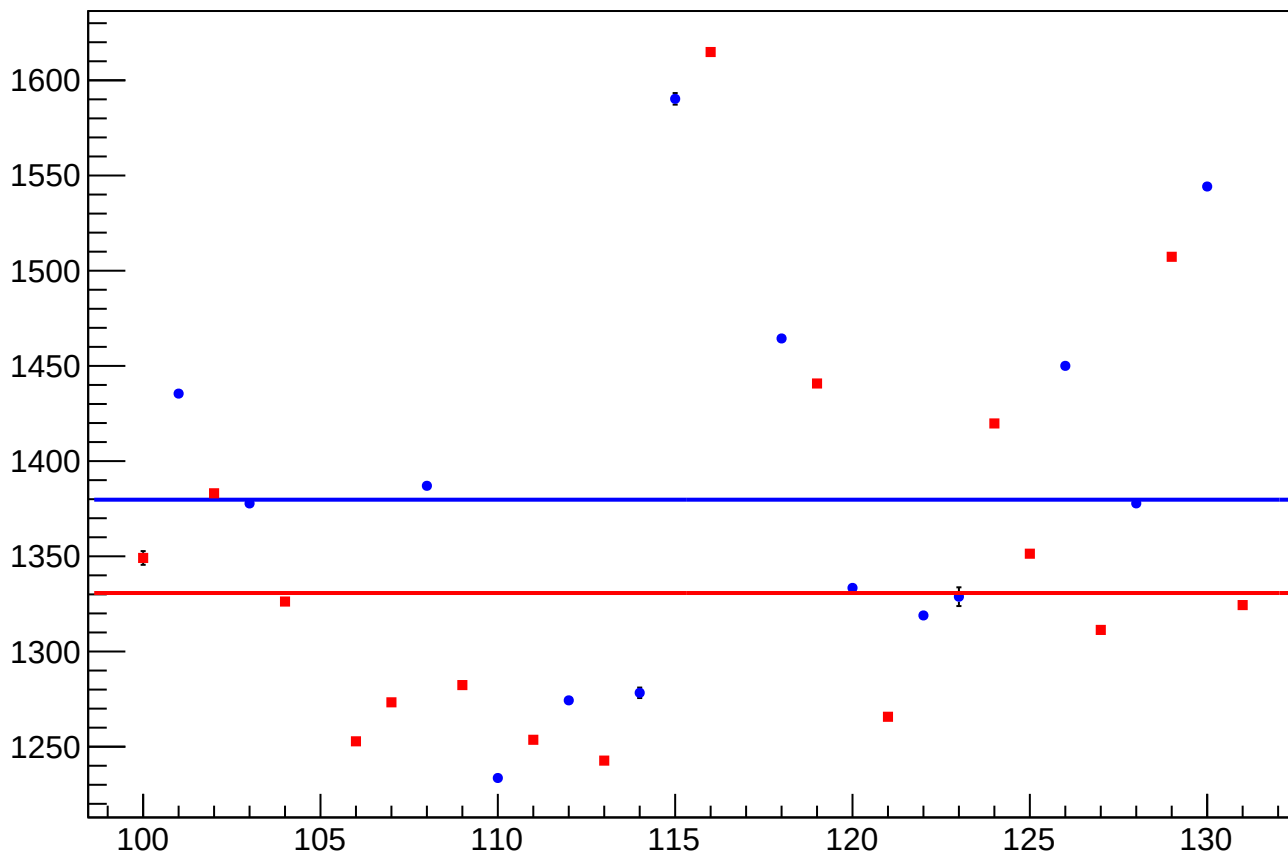
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: 2.854+/-0.404  $\chi^2$ /NDF: 1852.3/29

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

# diff\_bpm0i07Y\_rms vs Slug



Right In: 1379.732 $\pm$ 0.427  $\chi^2$ /NDF: 43385.8/13

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

Right Out: 1330.722 $\pm$ 0.385  $\chi^2$ /NDF: 50851.7/15

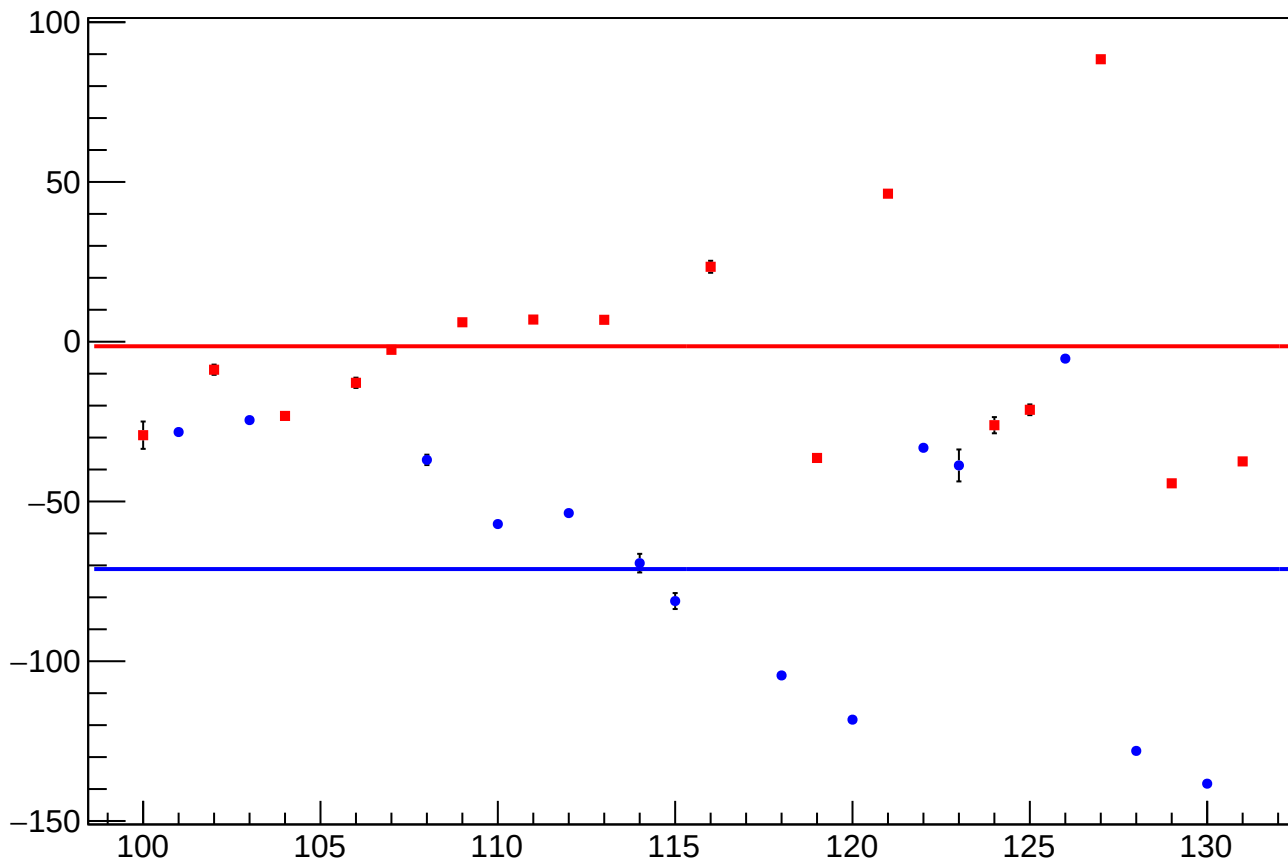
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 1352.705 $\pm$ 0.286  $\chi^2$ /NDF: 101505.1/29

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

# diff\_bpm1i02X\_mean vs Slug



Right In: -71.154+/-0.415  $\chi^2/\text{NDF}$ : 11383.3/13

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

Right Out: -1.426+/-0.385  $\chi^2/\text{NDF}$ : 8039.8/15

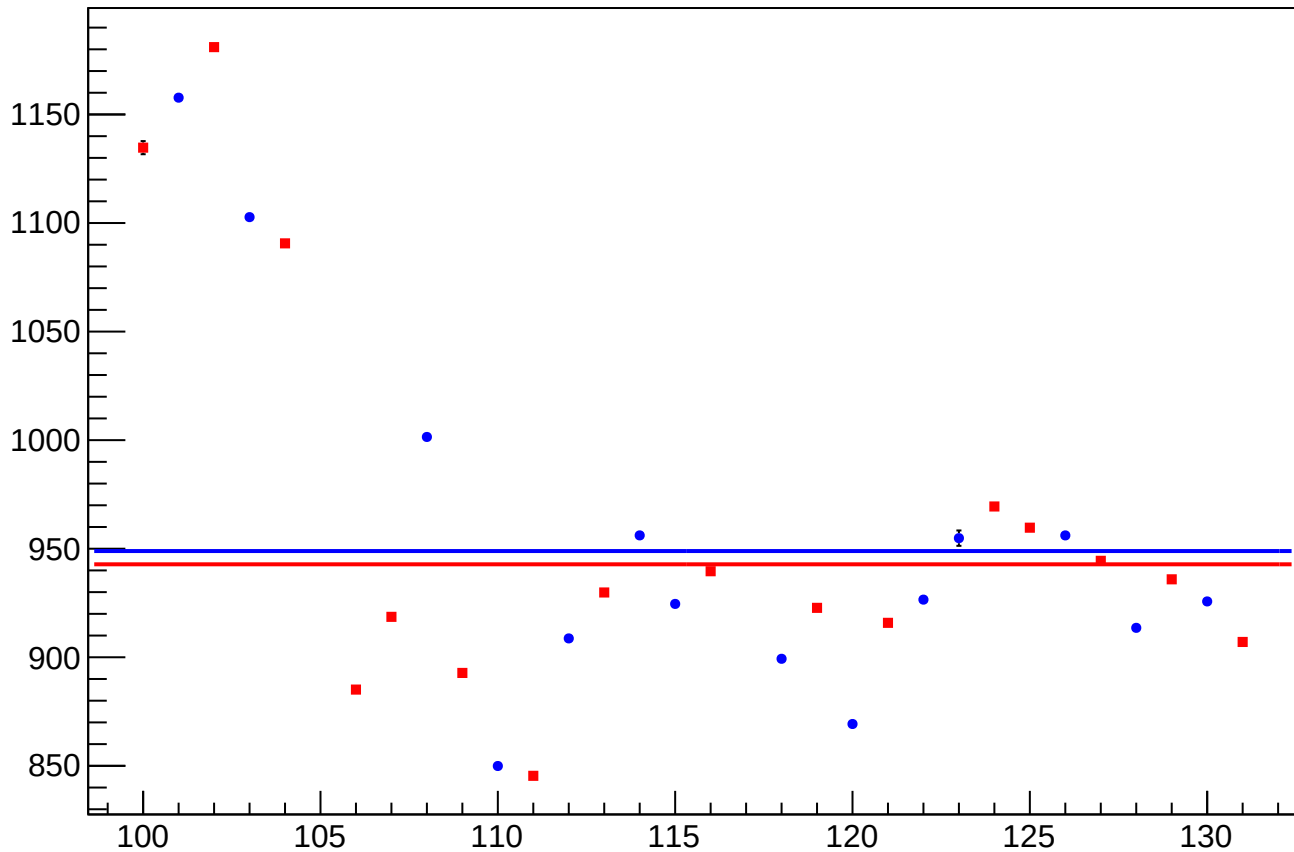
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -33.752+/-0.282  $\chi^2/\text{NDF}$ : 34591.4/29

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

# diff\_bpm1i02X\_rms vs Slug



Right In: 948.926 $\pm$ 0.293  $\chi^2$ /NDF: 85228.7/13

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

Right Out: 942.815 $\pm$ 0.273  $\chi^2$ /NDF: 87269.2/15

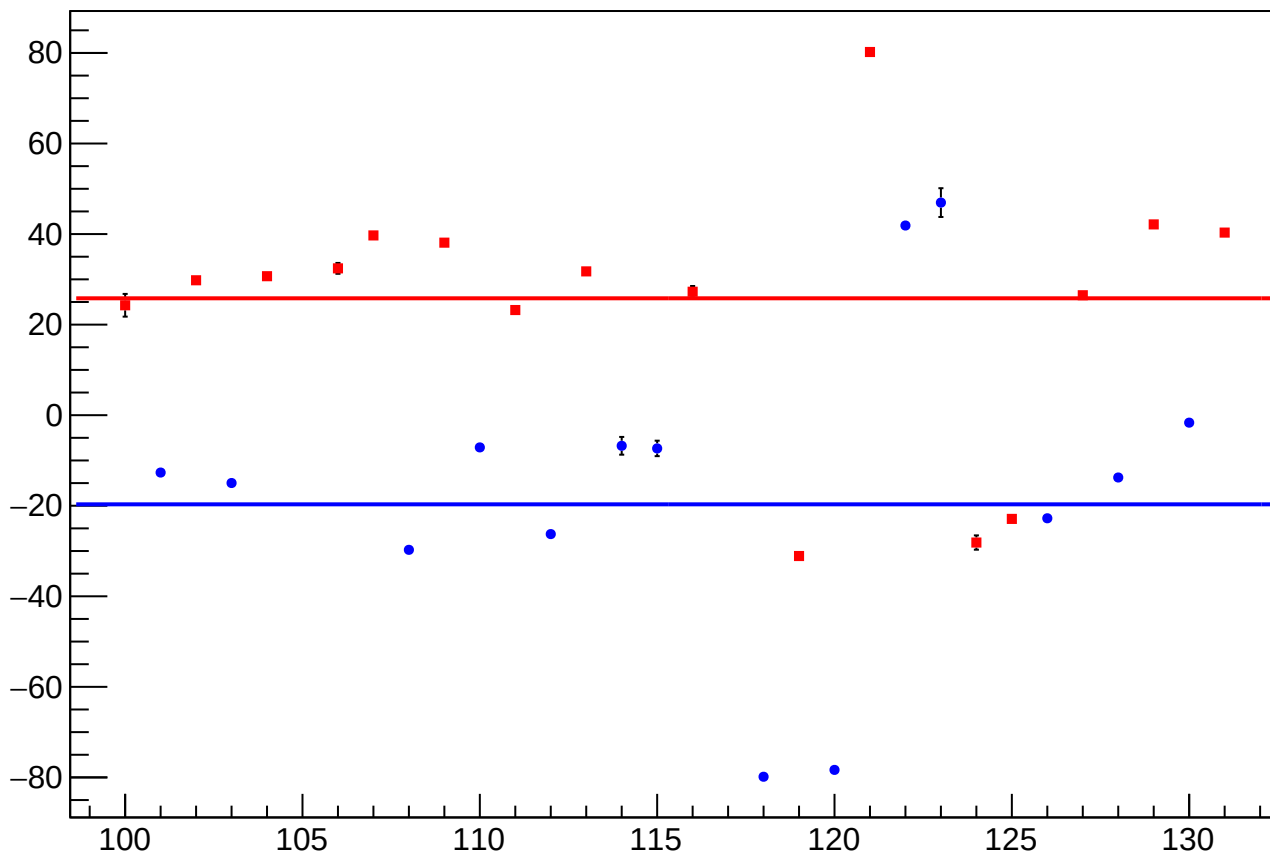
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 945.648 $\pm$ 0.200  $\chi^2$ /NDF: 172731.0/29

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

# diff\_bpm1i02Y\_mean vs Slug



Right In:  $-19.689 \pm 0.278$   $\chi^2/\text{NDF}: 12867.8/13$

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

Right Out:  $25.814 \pm 0.259$   $\chi^2/\text{NDF}: 11715.0/15$

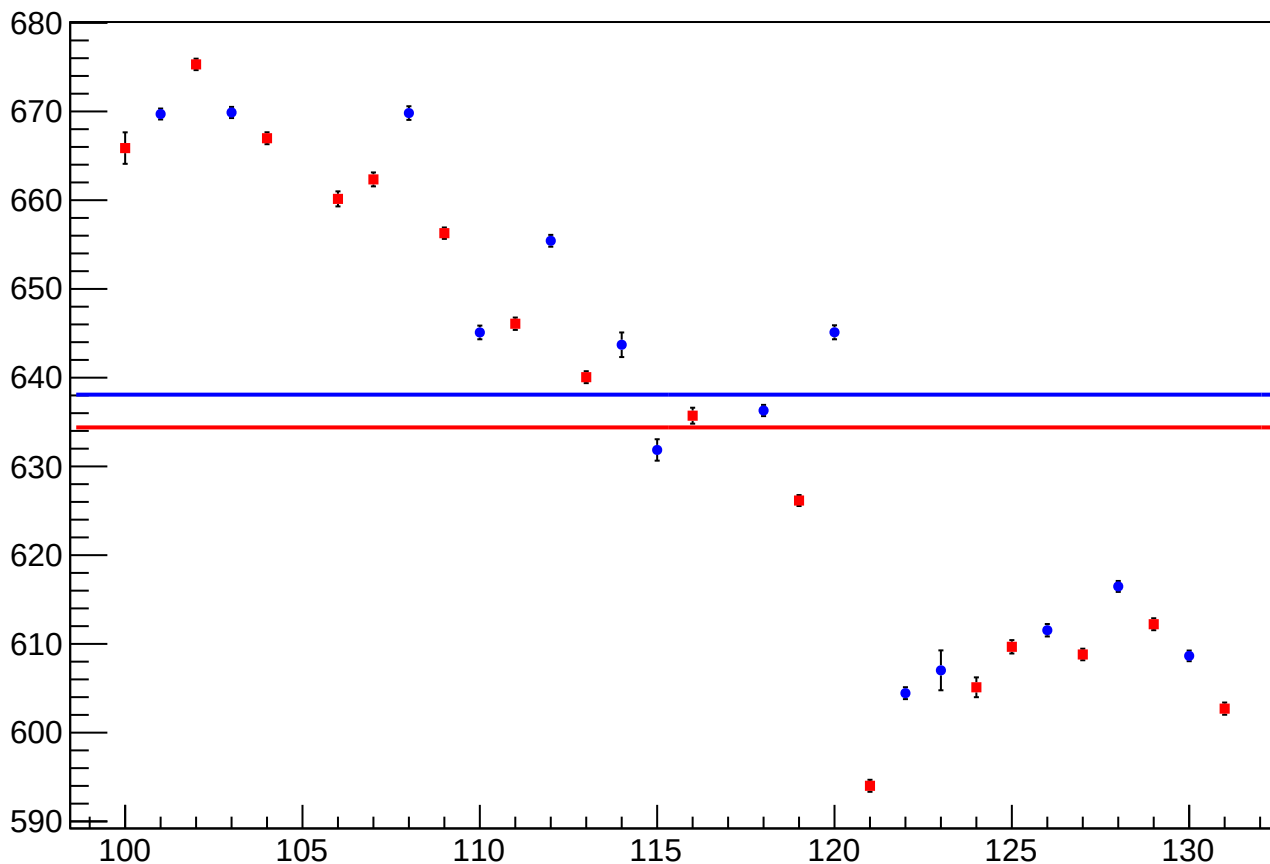
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

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

All:  $4.692 \pm 0.189$   $\chi^2/\text{NDF}: 38963.6/29$

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

# diff\_bpm1i02Y\_rms vs Slug



Right In: 638.087+/-0.196  $\chi^2/\text{NDF}$ : 15531.8/13

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

Right Out: 634.395+/-0.183  $\chi^2/\text{NDF}$ : 20638.6/15

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

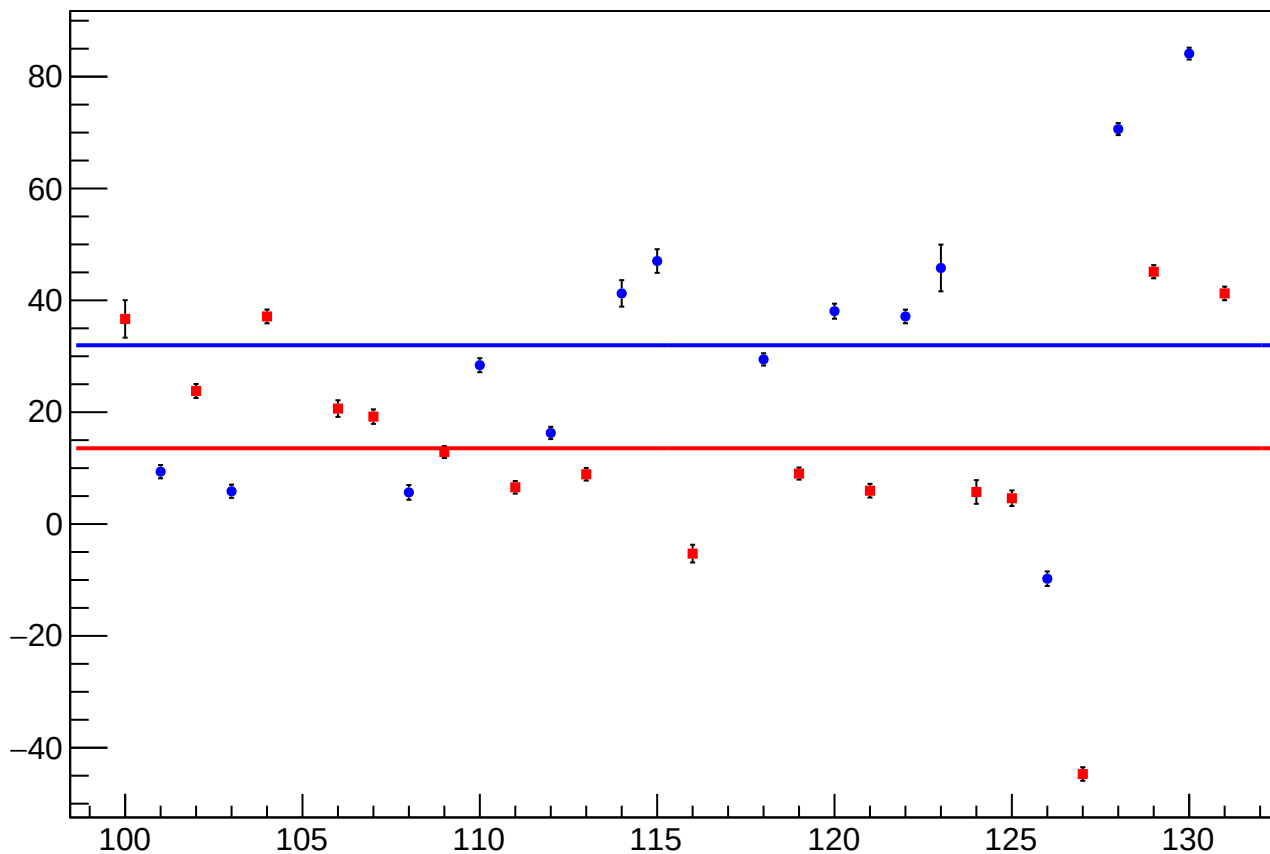
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 636.109+/-0.134  $\chi^2/\text{NDF}$ : 36359.8/29

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



# diff\_bpm1i04X\_mean vs Slug



Right In: 31.967+/-0.347  $\chi^2/\text{NDF}$ : 6286.3/13

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

Right Out: 13.549+/-0.323  $\chi^2/\text{NDF}$ : 4367.3/15

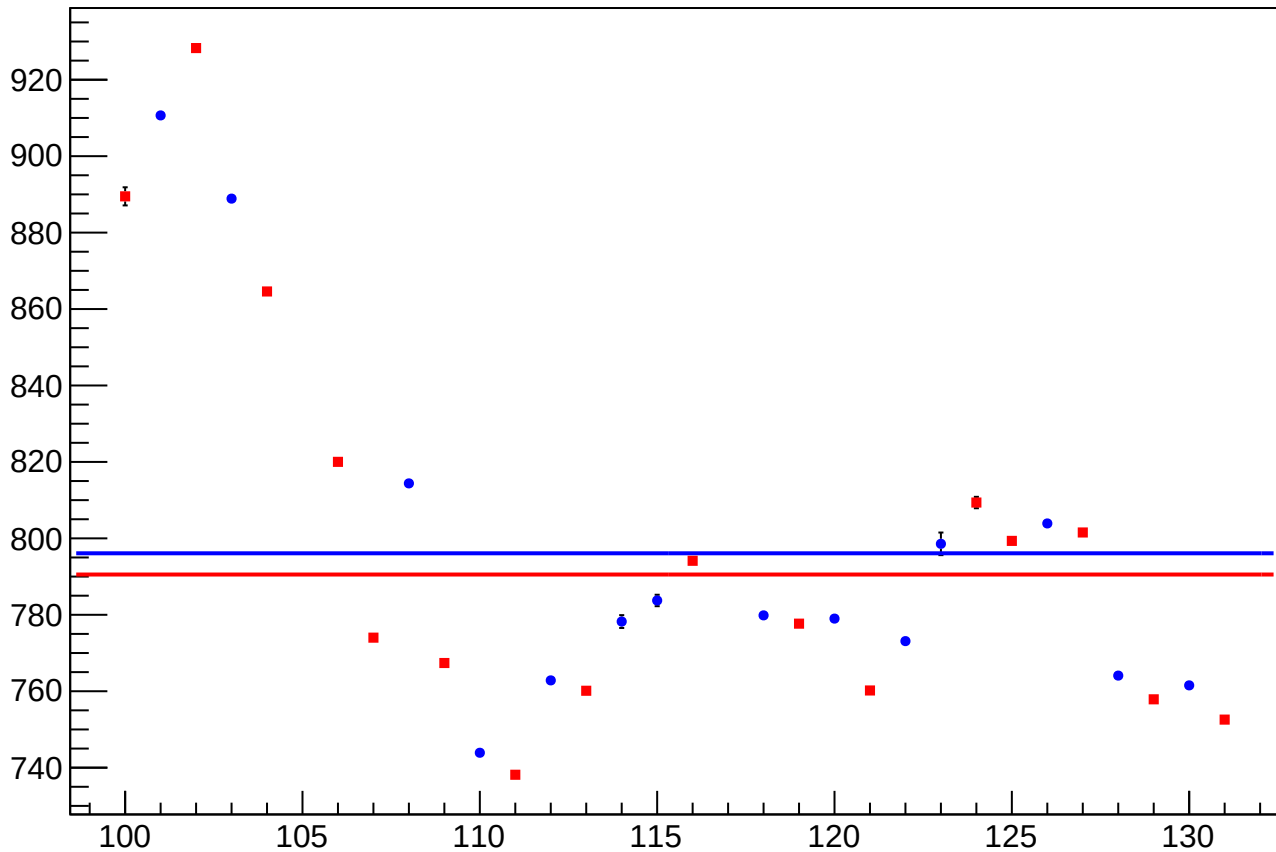
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 22.086+/-0.236  $\chi^2/\text{NDF}$ : 12164.3/29

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

# diff\_bpm1i04X\_rms vs Slug



Right In: 796.093 $\pm$ 0.245  $\chi^2$ /NDF: 42191.2/13

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

Right Out: 790.538 $\pm$ 0.228  $\chi^2$ /NDF: 46265.0/15

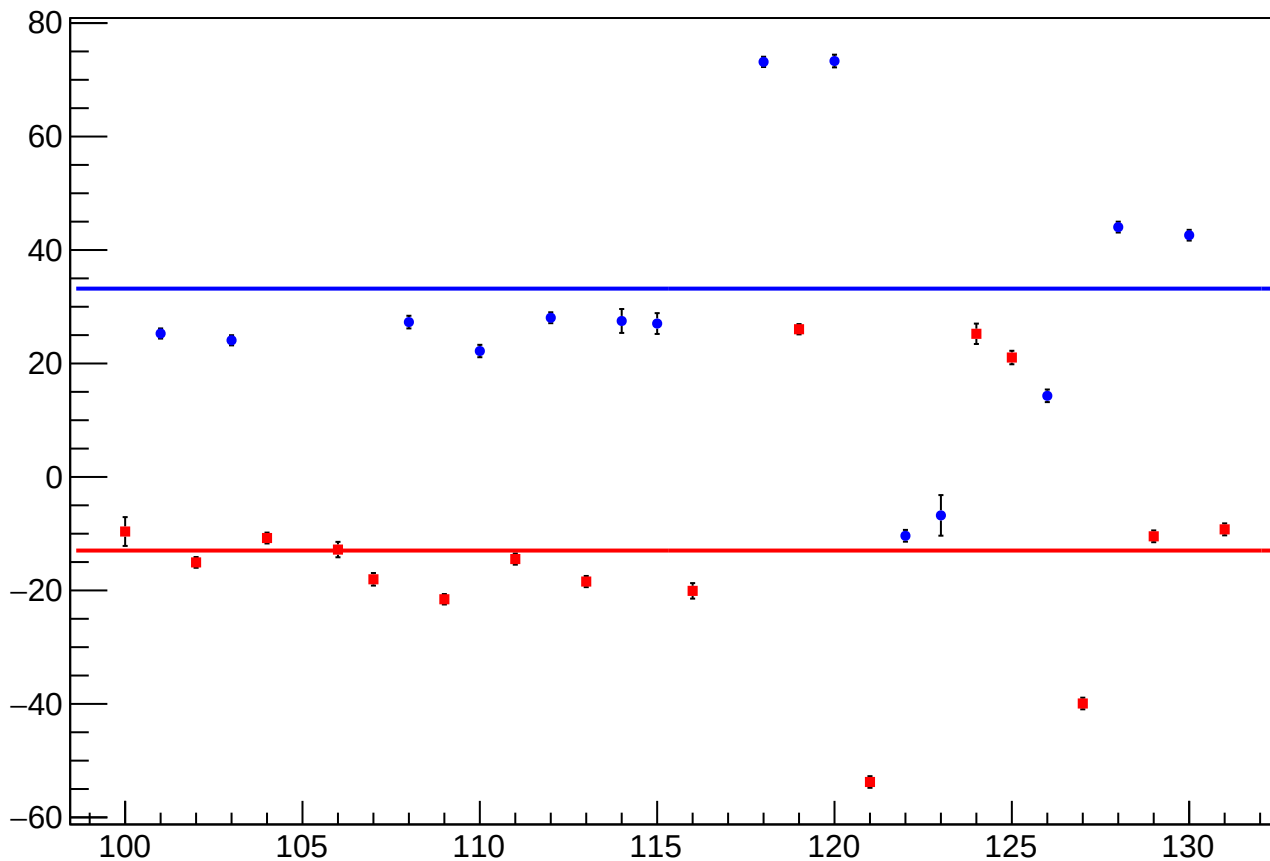
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 793.113 $\pm$ 0.167  $\chi^2$ /NDF: 88731.0/29

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

# diff\_bpm1i04Y\_mean vs Slug



Right In: 33.196 $\pm$ 0.291  $\chi^2$ /NDF: 5987.5/13

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

Right Out: -12.971 $\pm$ 0.273  $\chi^2$ /NDF: 5592.3/15

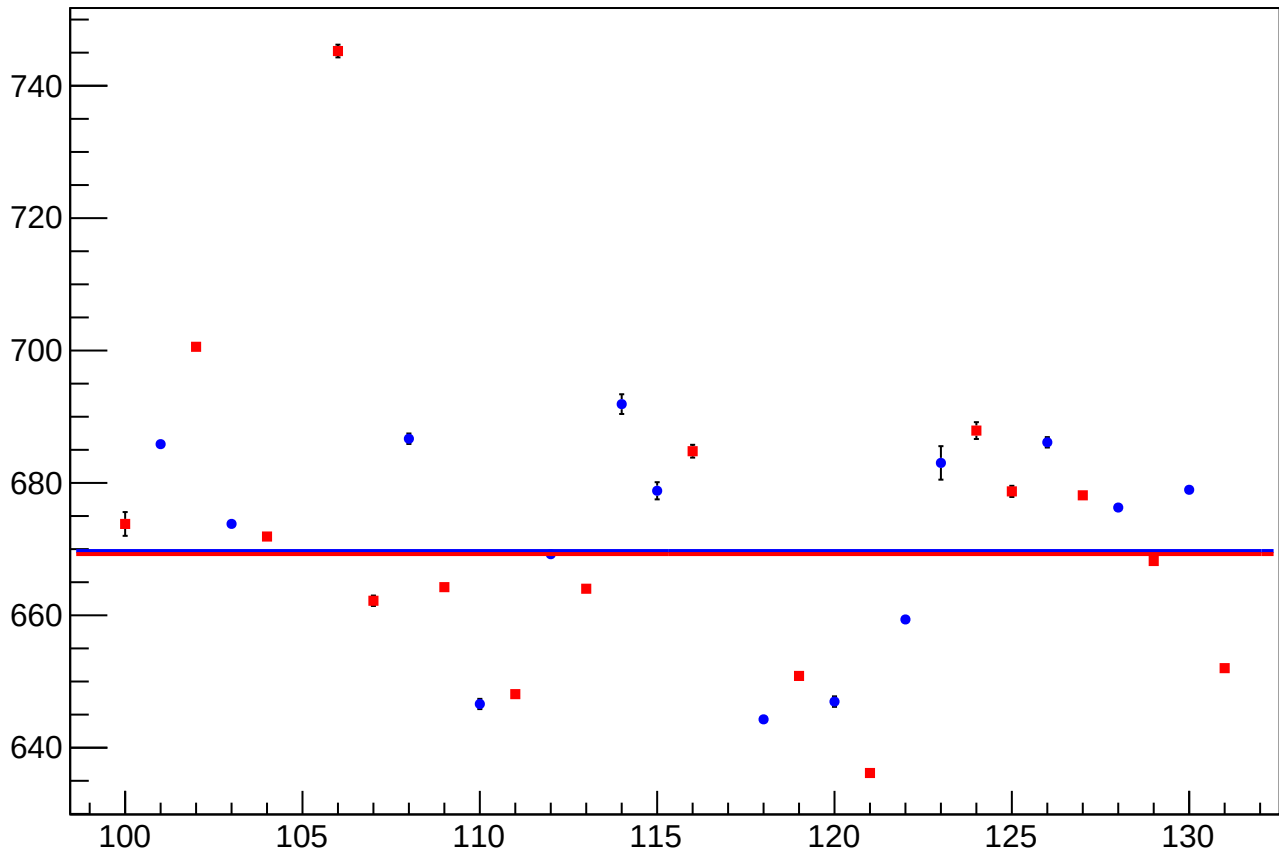
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 8.589 $\pm$ 0.199  $\chi^2$ /NDF: 24955.9/29

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

# diff\_bpm1i04Y\_rms vs Slug



Right In: 669.710 $\pm$ 0.206  $\chi^2$ /NDF: 5665.3/13

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

Right Out: 669.251 $\pm$ 0.193  $\chi^2$ /NDF: 13774.5/15

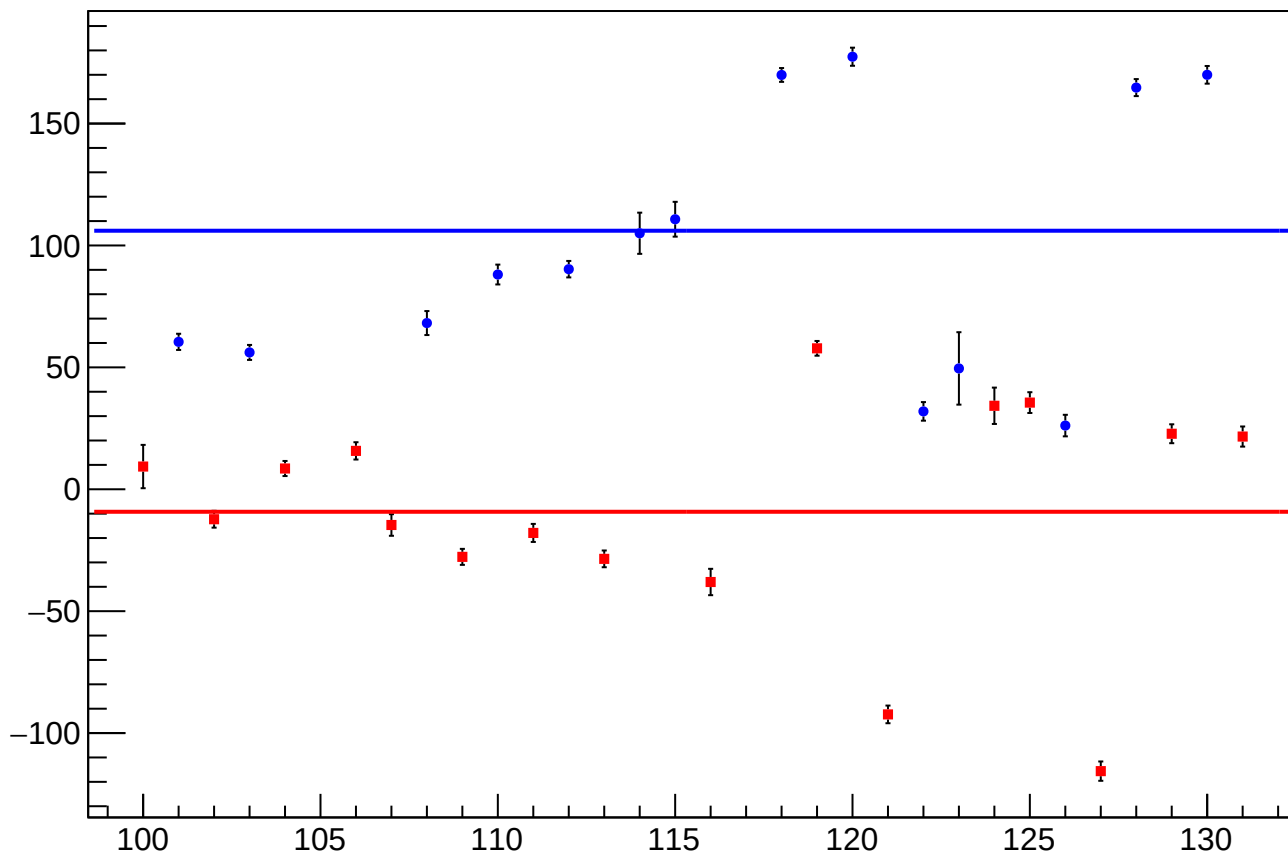
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 669.465 $\pm$ 0.141  $\chi^2$ /NDF: 19442.4/29

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

# diff\_bpm1i06X\_mean vs Slug



Right In: 106.043 $\pm$ 1.054  $\chi^2$ /NDF: 2744.6/13

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

Right Out: -9.226 $\pm$ 0.969  $\chi^2$ /NDF: 2194.4/15

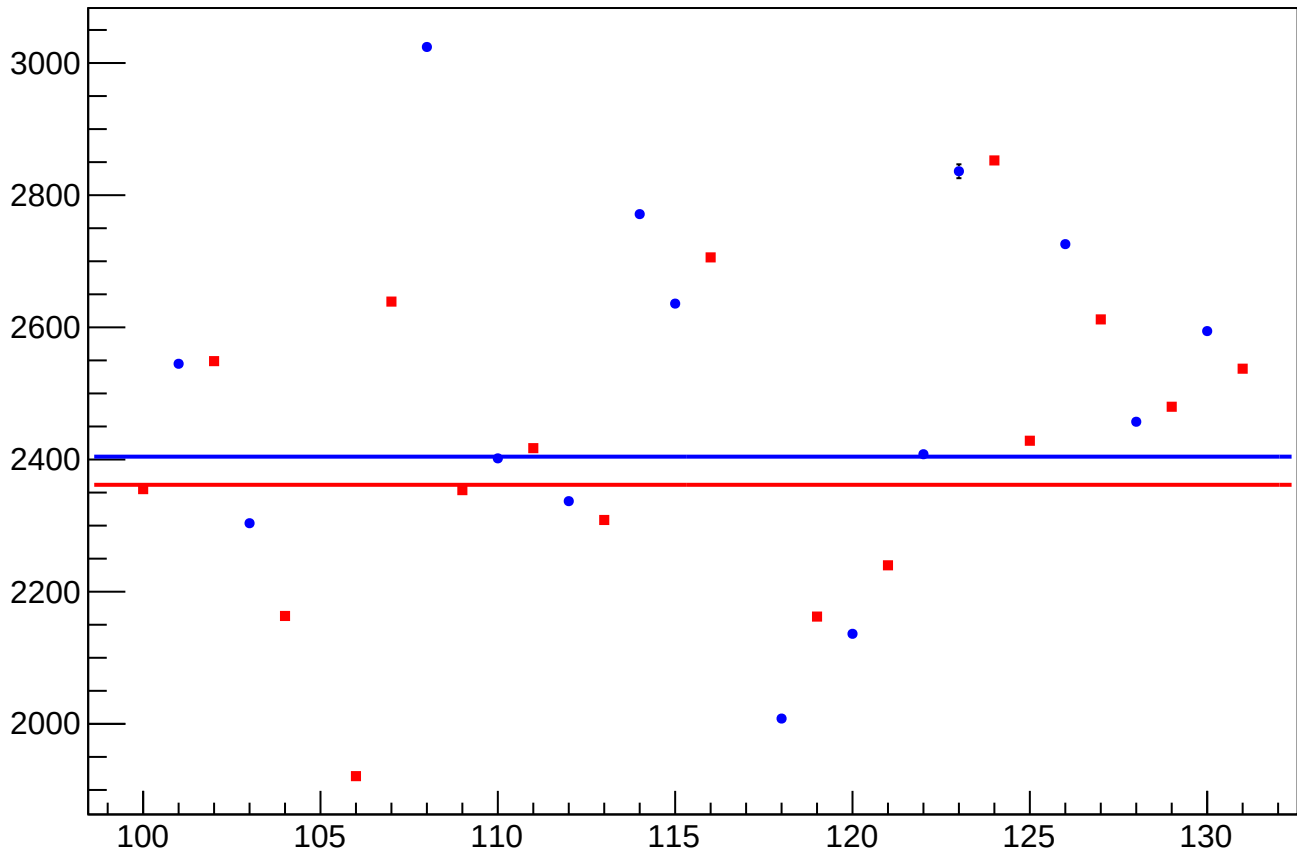
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 43.559 $\pm$ 0.714  $\chi^2$ /NDF: 11416.2/29

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

# diff\_bpm1i06X\_rms vs Slug



Right In: 2404.351+/-0.746  $\chi^2/\text{NDF}$ : 111974.7/13

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

Right Out: 2361.746+/-0.685  $\chi^2/\text{NDF}$ : 95509.8/15

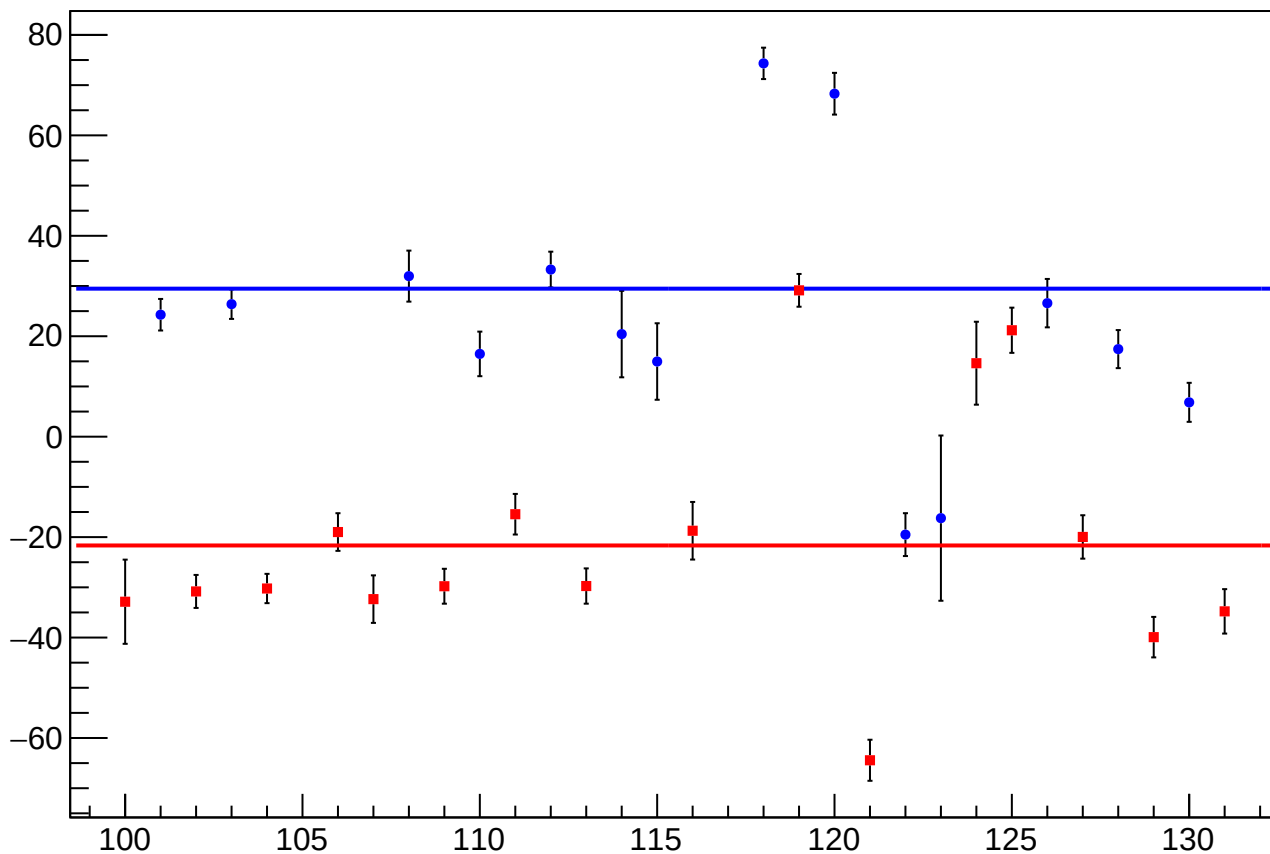
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 2381.256+/-0.505  $\chi^2/\text{NDF}$ : 209254.2/29

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

# diff\_bpm1i06Y\_mean vs Slug



Right In: 29.474+/-1.109  $\chi^2/\text{NDF}$ : 495.5/13

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

Right Out: -21.663+/-1.010  $\chi^2/\text{NDF}$ : 528.5/15

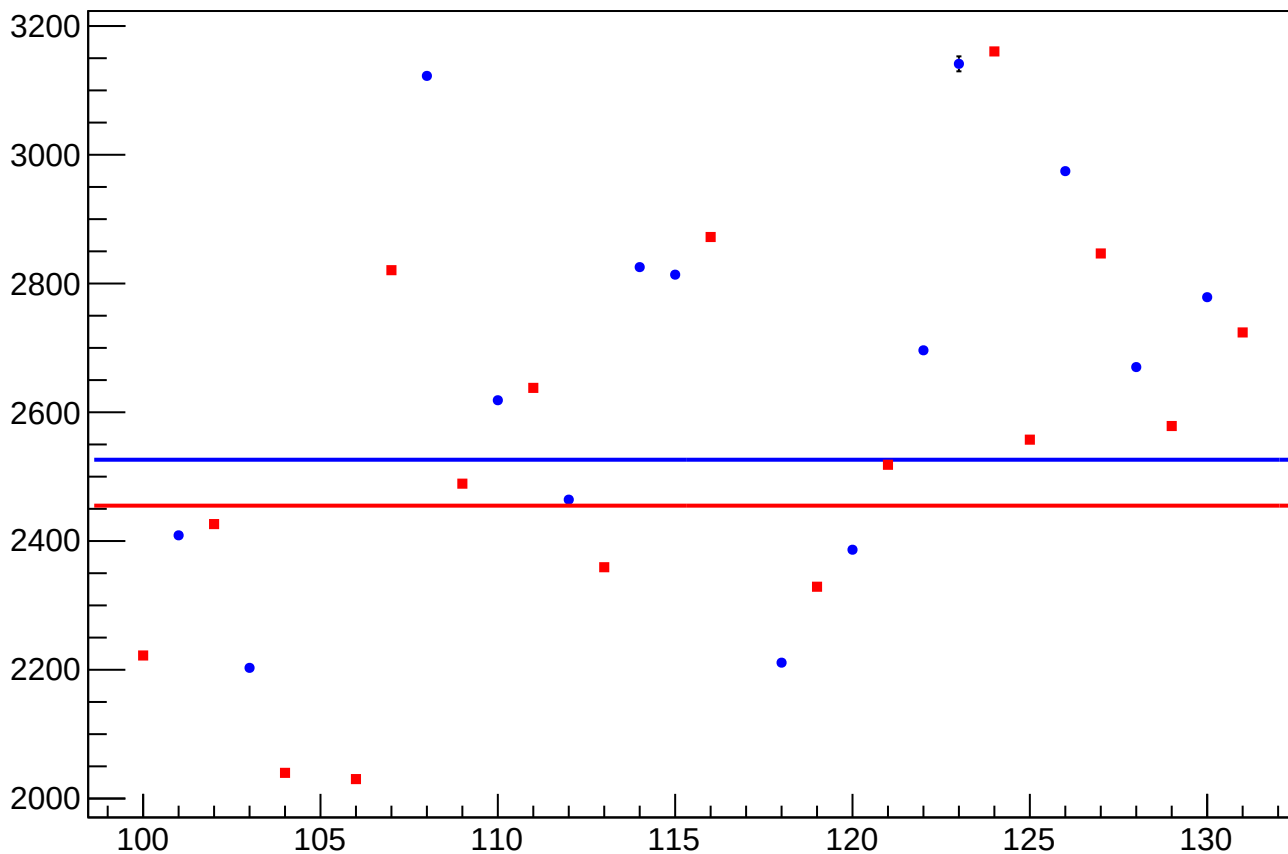
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 1.539+/-0.747  $\chi^2/\text{NDF}$ : 2186.3/29

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

# diff\_bpm1i06Y\_rms vs Slug



Right In: 2526.288+/-0.784  $\chi^2/\text{NDF}$ : 118442.0/13

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: 2454.955+/-0.714  $\chi^2/\text{NDF}$ : 140979.7/15

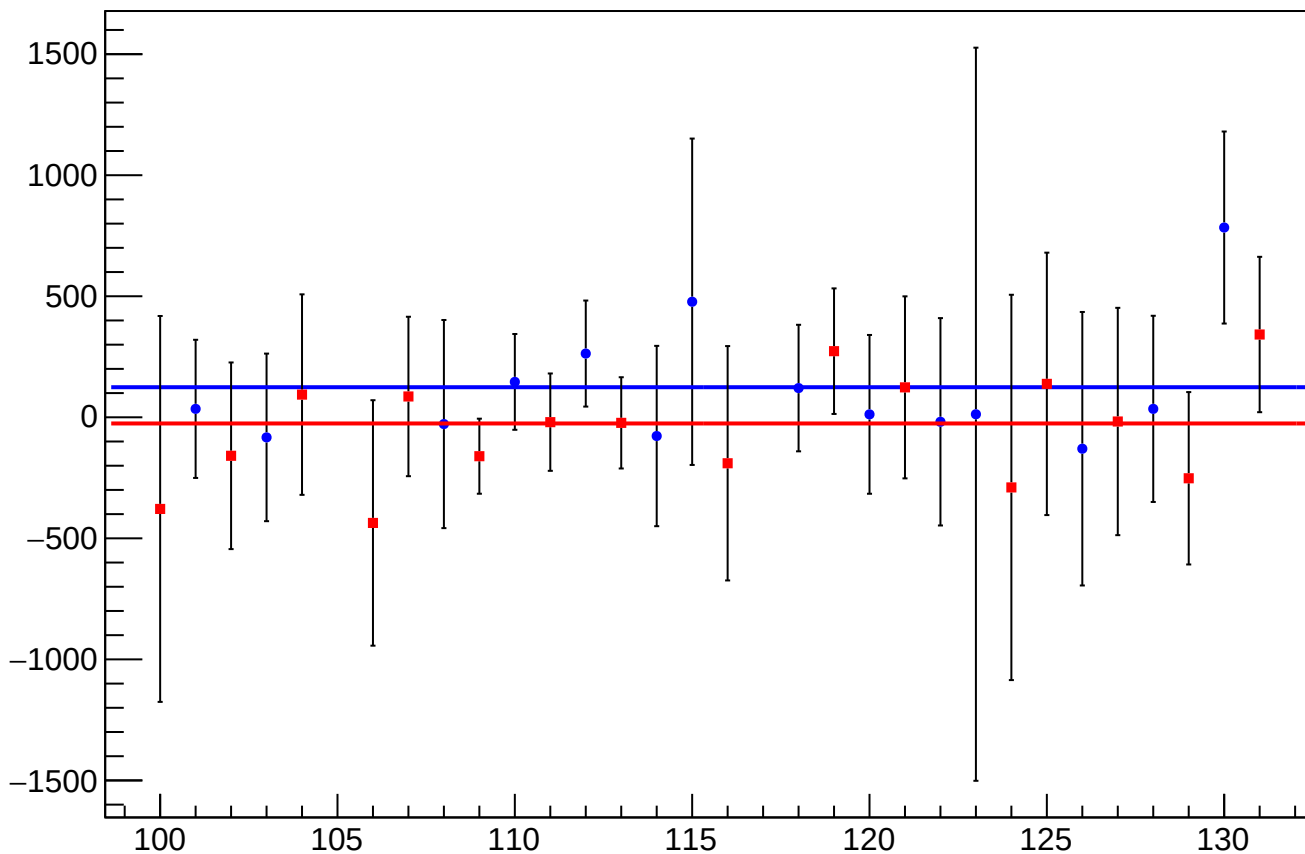
All: 2487.320+/-0.528  $\chi^2/\text{NDF}$ : 263944.9/29

- 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



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



Right In: 124.256 $\pm$ 88.417  $\chi^2$ /NDF: 4.8/13

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

Right Out: -25.491 $\pm$ 75.577  $\chi^2$ /NDF: 5.4/15

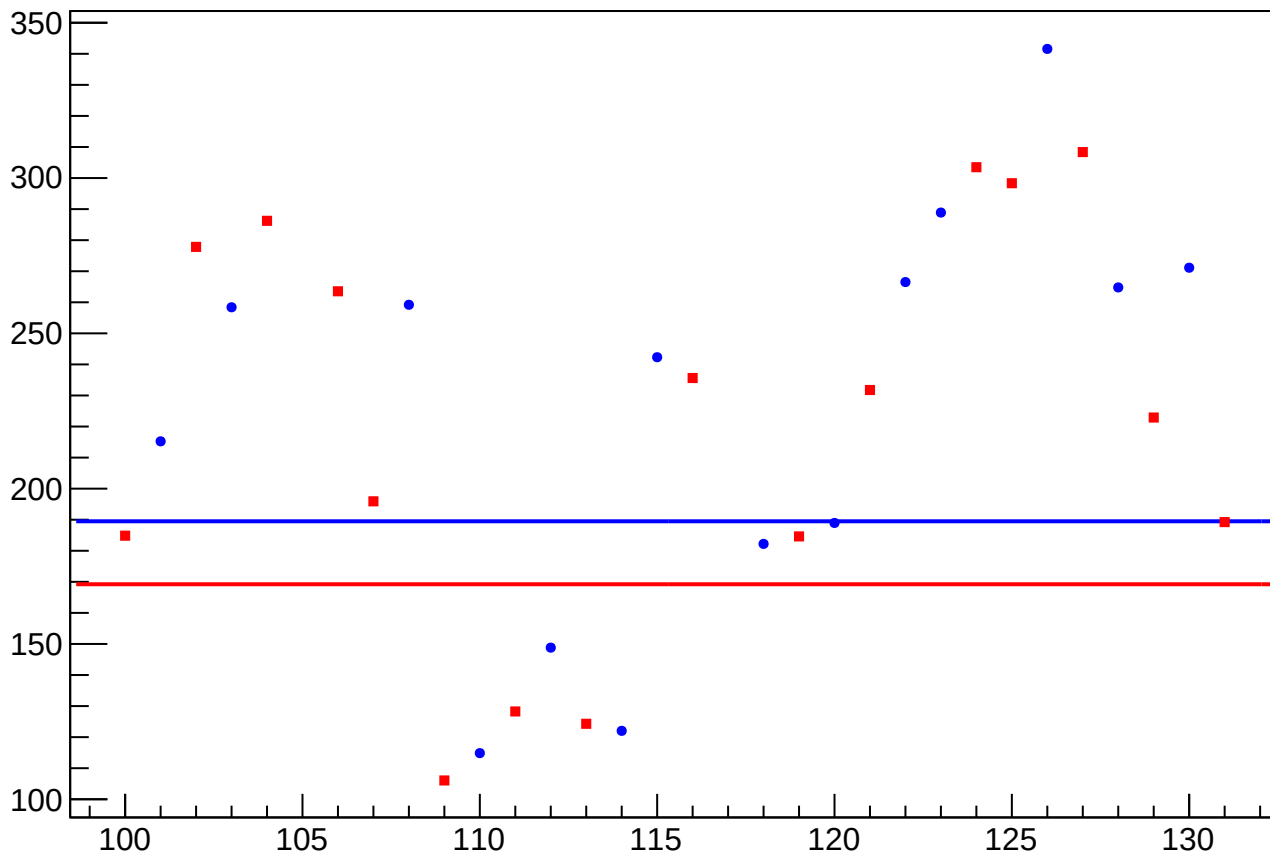
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 37.729 $\pm$ 57.449  $\chi^2$ /NDF: 11.9/29

- 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: 189.494 $\pm$ 0.063  $\chi^2$ /NDF: 960853.6/13

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

Right Out: 169.222 $\pm$ 0.053  $\chi^2$ /NDF: 1429638.7/15

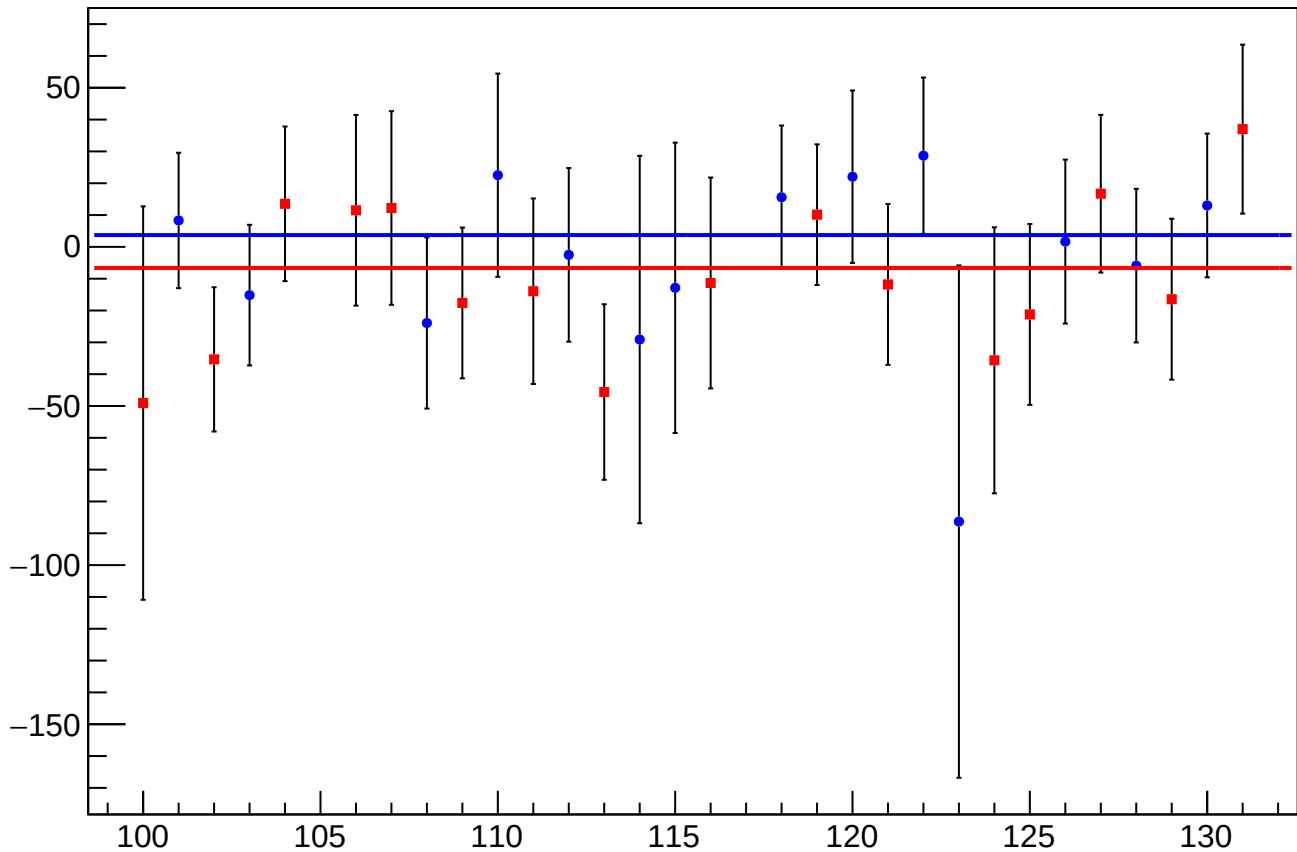
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 177.781 $\pm$ 0.041  $\chi^2$ /NDF: 2451241.0/29

- 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: 3.715+/-7.240  $\chi^2/\text{NDF}$ : 6.0/13

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

Right Out: -6.627+/-6.849  $\chi^2/\text{NDF}$ : 10.9/15

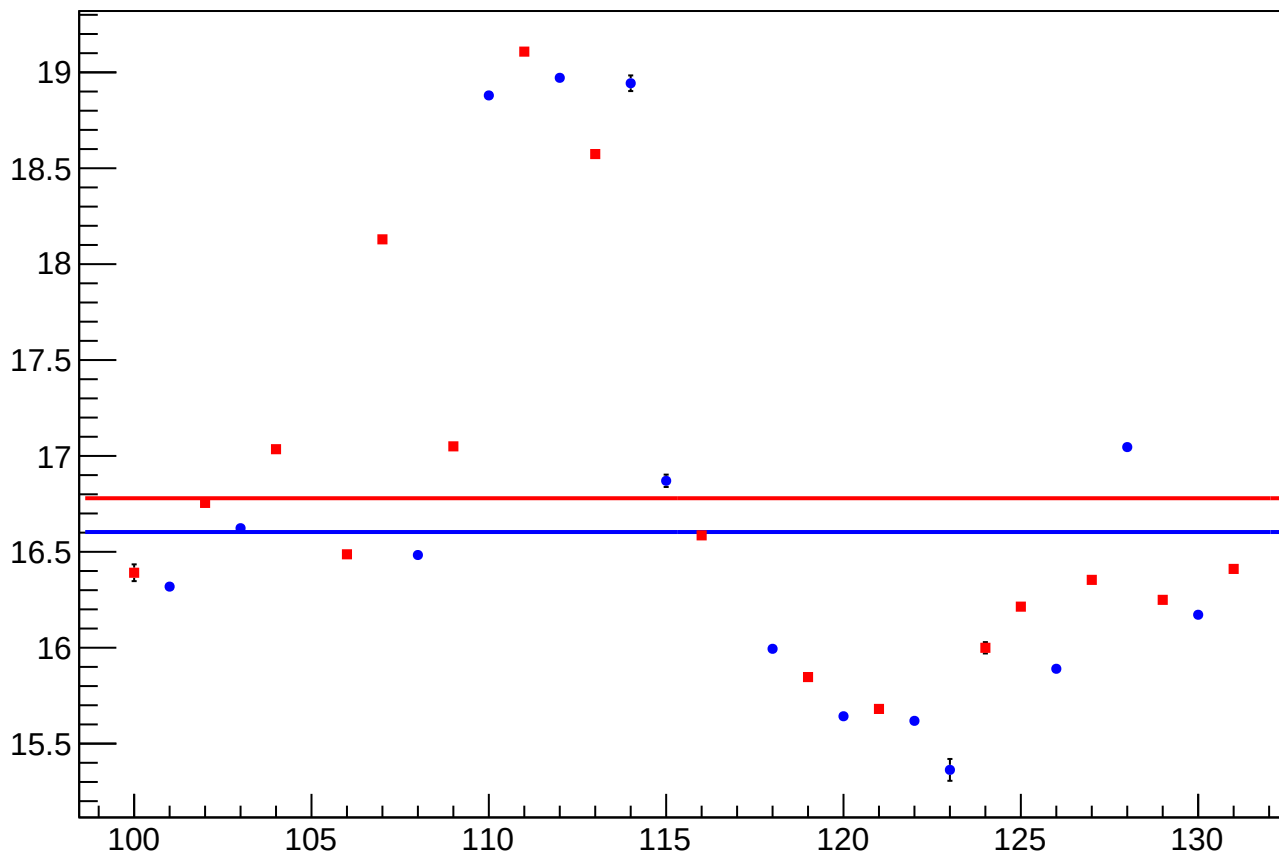
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -1.743+/-4.976  $\chi^2/\text{NDF}$ : 18.0/29

- 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: 16.603 $\pm$ 0.005  $\chi^2$ /NDF: 39592.1/13

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

Right Out: 16.779 $\pm$ 0.005  $\chi^2$ /NDF: 36662.9/15

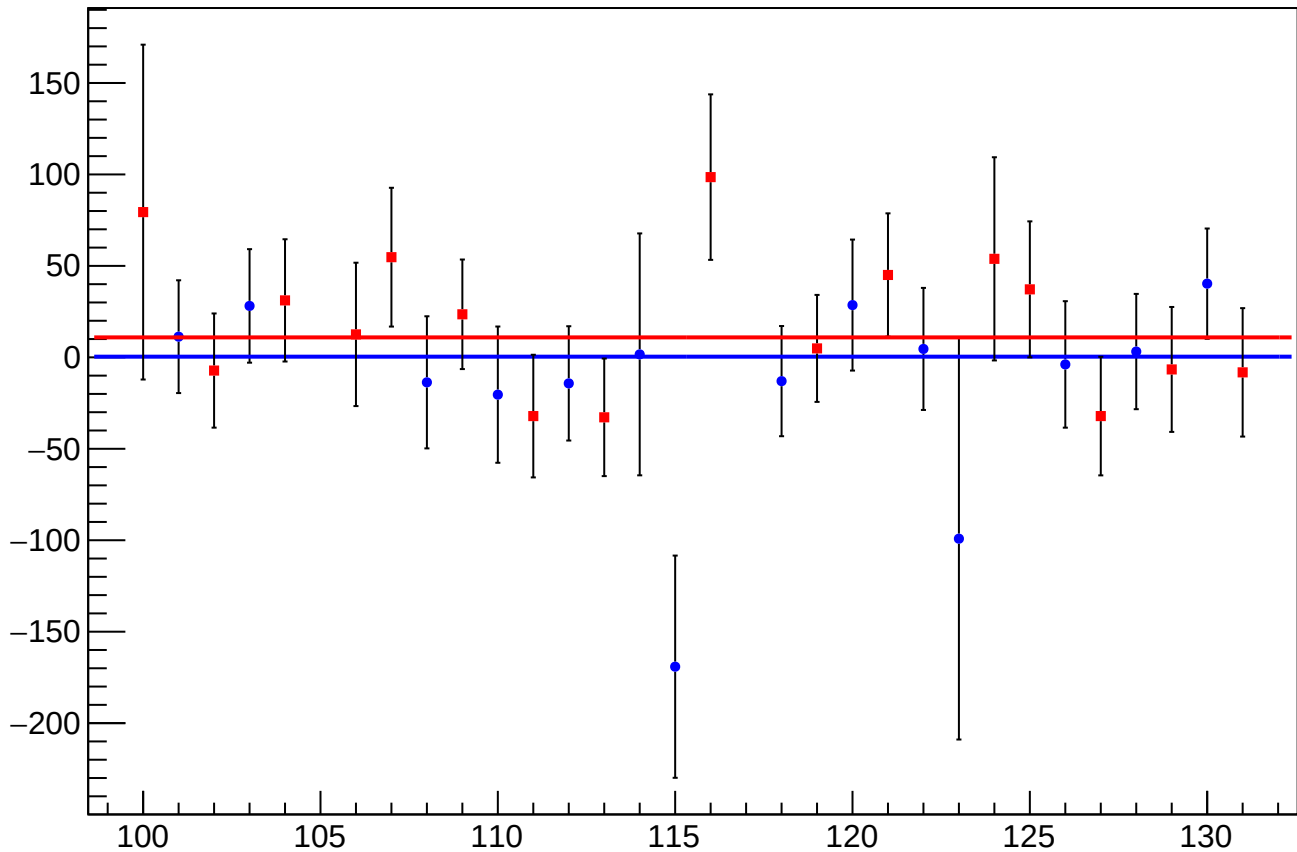
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 16.696 $\pm$ 0.004  $\chi^2$ /NDF: 76879.8/29

- 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: 0.365 $\pm$ 9.575  $\chi^2$ /NDF: 12.8/13

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

Right Out: 10.909 $\pm$ 8.921  $\chi^2$ /NDF: 14.5/15

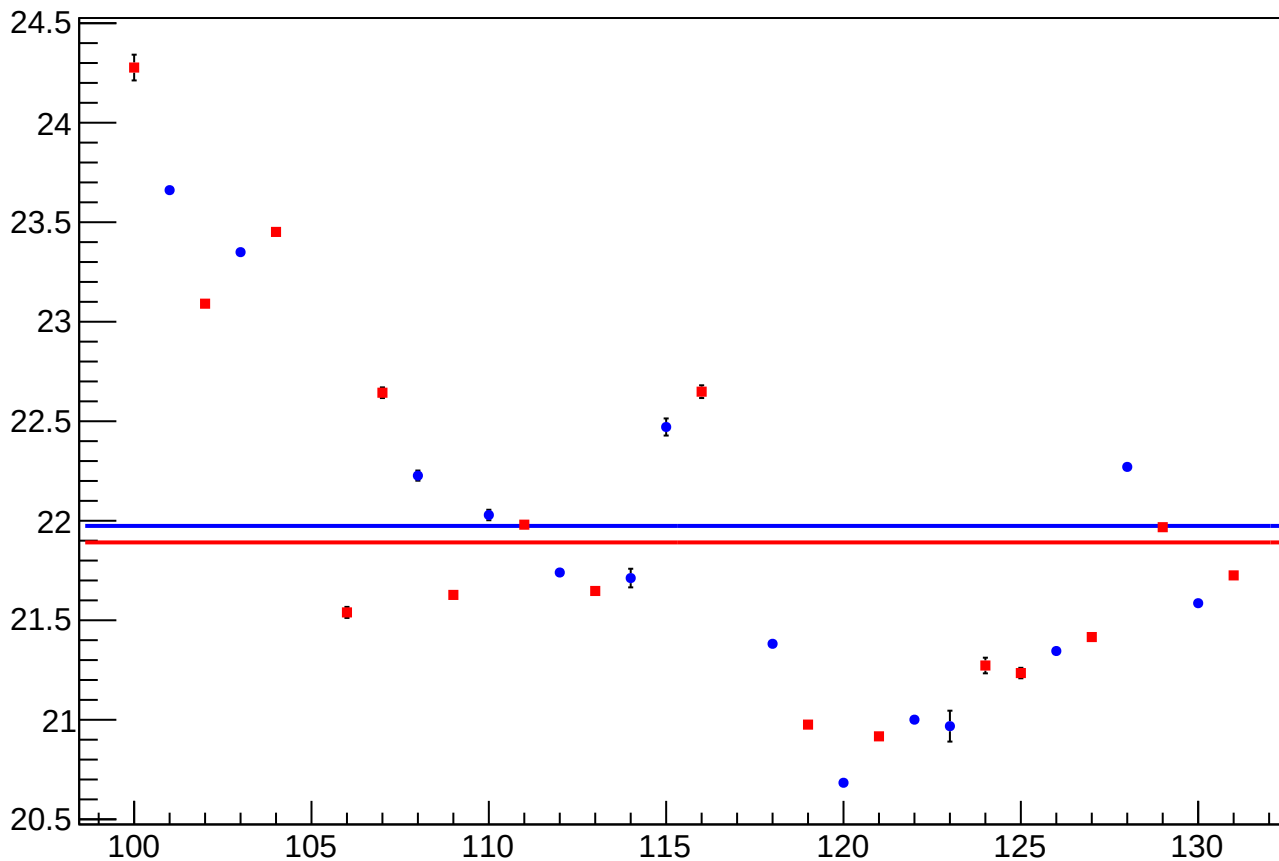
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 6.009 $\pm$ 6.527  $\chi^2$ /NDF: 28.0/29

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

asym\_bcm\_an\_avg\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 21.974 $\pm$ 0.007  $\chi^2$ /NDF: 16707.5/13

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

Right Out: 21.891 $\pm$ 0.006  $\chi^2$ /NDF: 15450.8/15

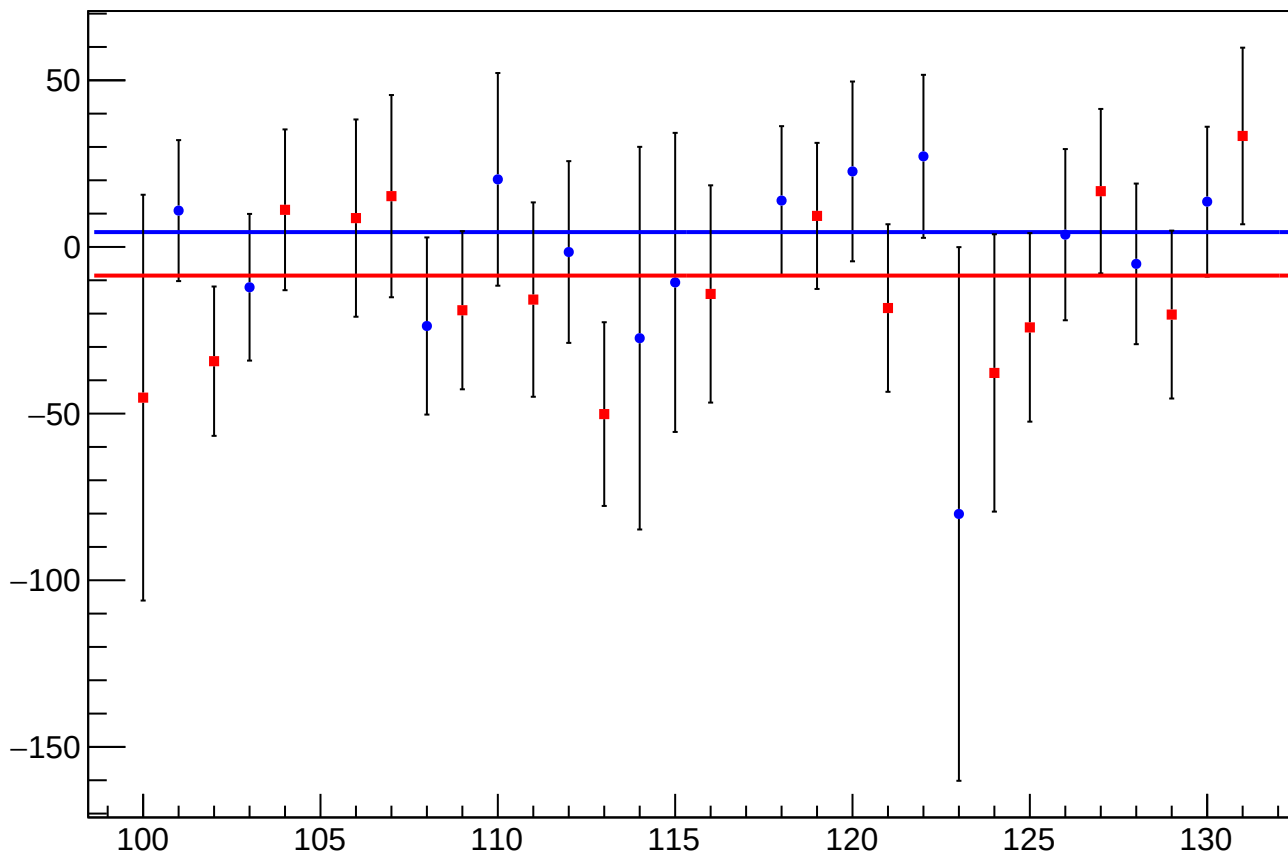
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 21.930 $\pm$ 0.005  $\chi^2$ /NDF: 32238.5/29

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

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_ds\_agg\_dd\_mean vs Slug



Right In: 4.457+/-7.203  $\chi^2/\text{NDF}$ : 5.4/13

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

Right Out: -8.589+/-6.811  $\chi^2/\text{NDF}$ : 11.2/15

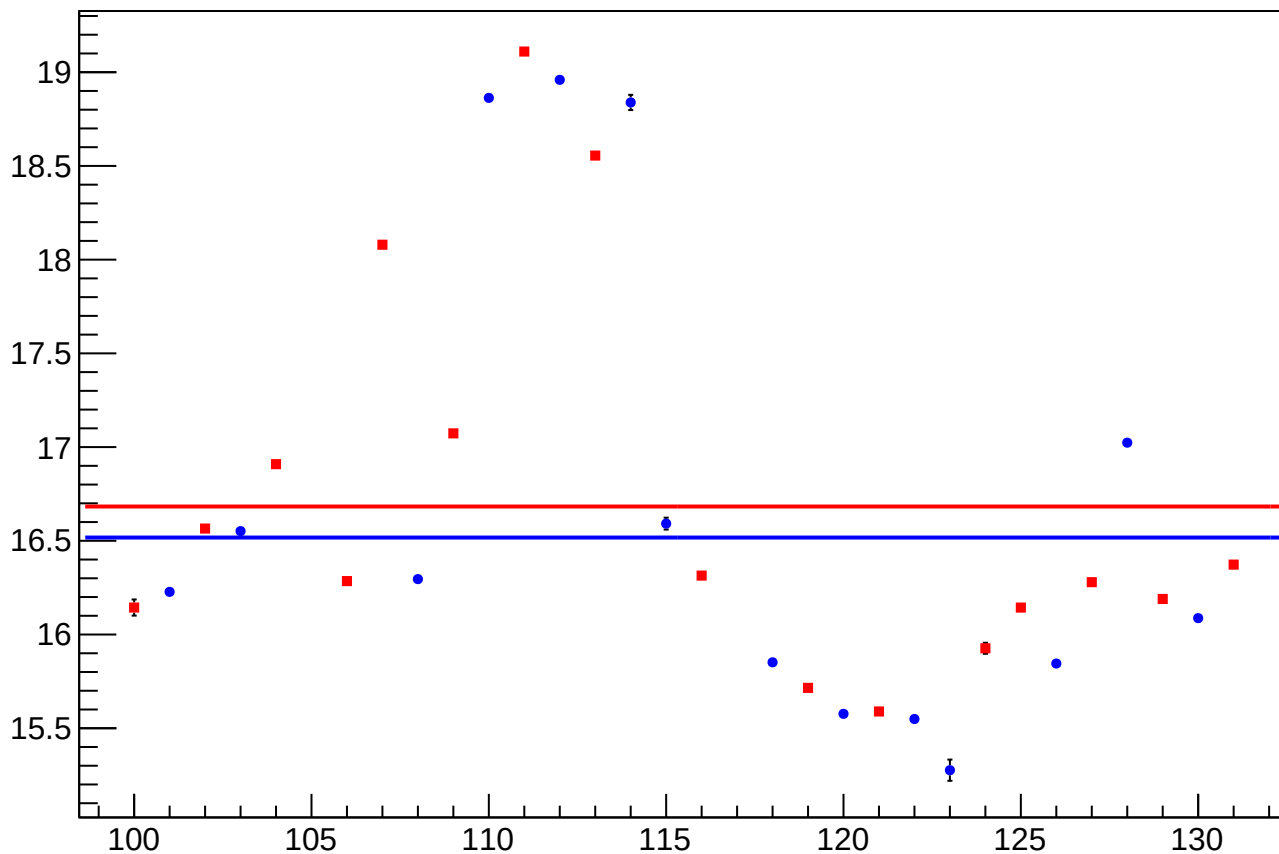
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -2.431+/-4.949  $\chi^2/\text{NDF}$ : 18.4/29

- 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: 16.517+/-0.005  $\chi^2/\text{NDF}$ : 41462.0/13

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

Right Out: 16.683+/-0.005  $\chi^2/\text{NDF}$ : 39526.4/15

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

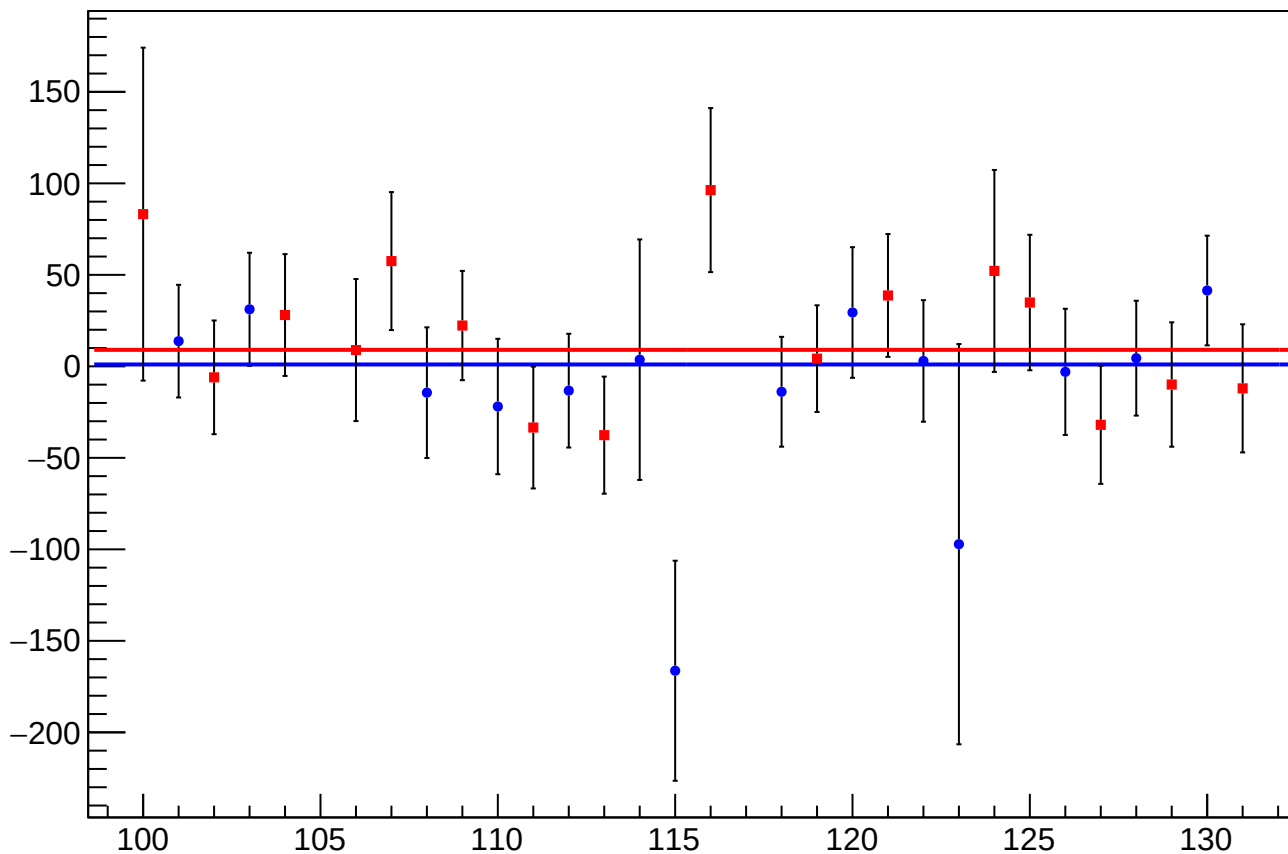
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 16.605+/-0.003  $\chi^2/\text{NDF}$ : 81546.0/29

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



asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_us\_agg\_dd\_mean vs Slug



Right In: 1.025+/-9.527  $\chi^2/\text{NDF}$ : 13.2/13

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

Right Out: 9.016+/-8.877  $\chi^2/\text{NDF}$ : 14.8/15

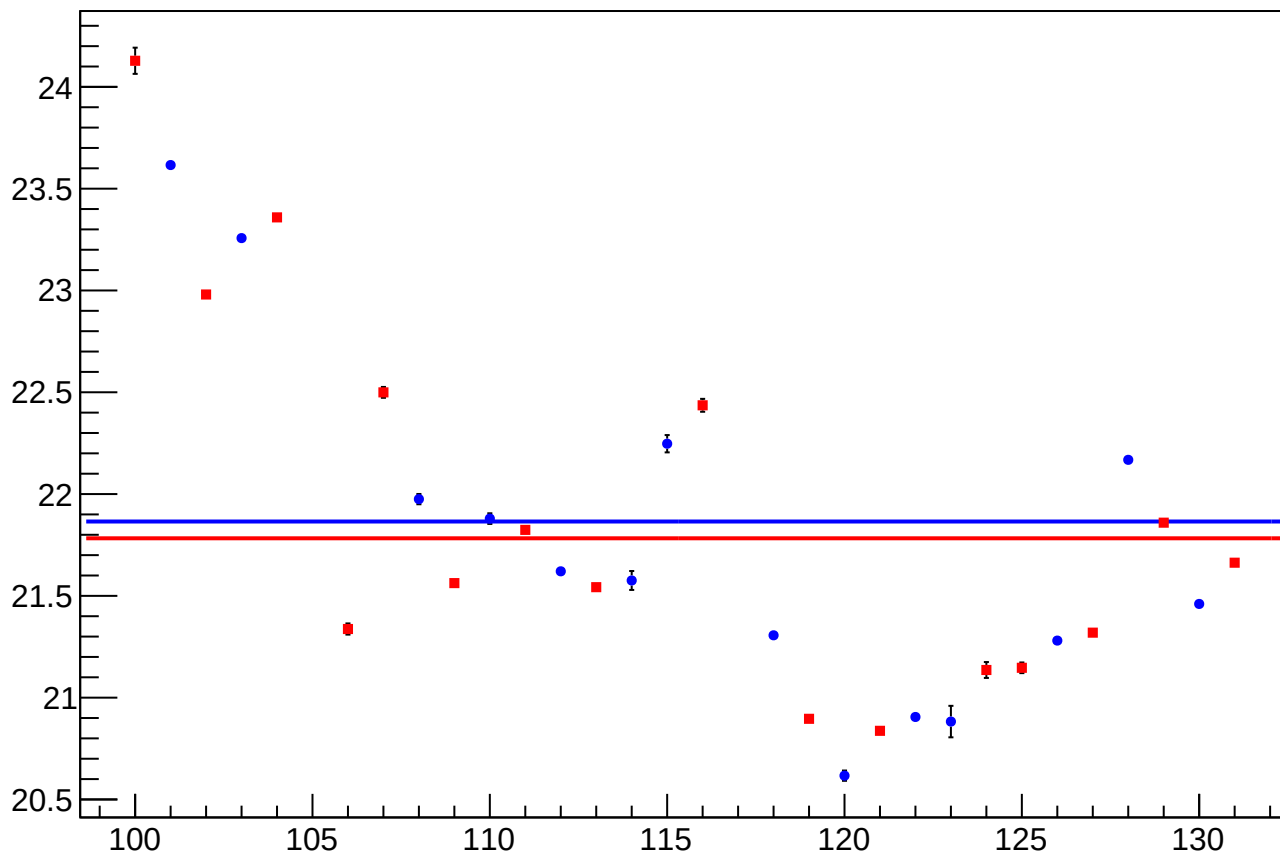
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 5.303+/-6.495  $\chi^2/\text{NDF}$ : 28.4/29

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

asym\_bcm\_an\_us\_ds3\_avg\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 21.865 $\pm$ 0.007  $\chi^2$ /NDF: 16891.4/13

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

Right Out: 21.783 $\pm$ 0.006  $\chi^2$ /NDF: 15172.2/15

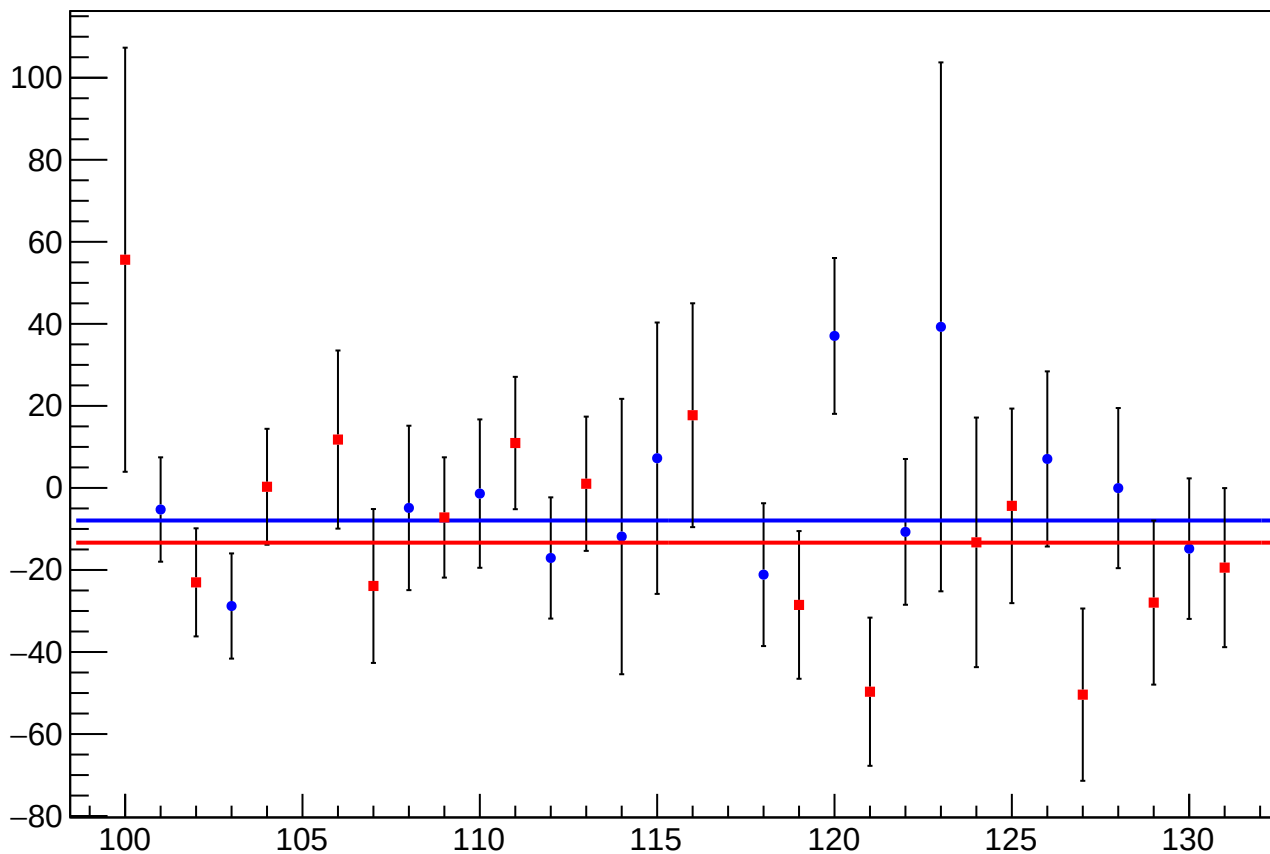
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 21.821 $\pm$ 0.005  $\chi^2$ /NDF: 32143.8/29

- 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: -7.939+/-4.886  $\chi^2/\text{NDF}$ : 11.0/13

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

Right Out: -13.342+/-4.657  $\chi^2/\text{NDF}$ : 18.1/15

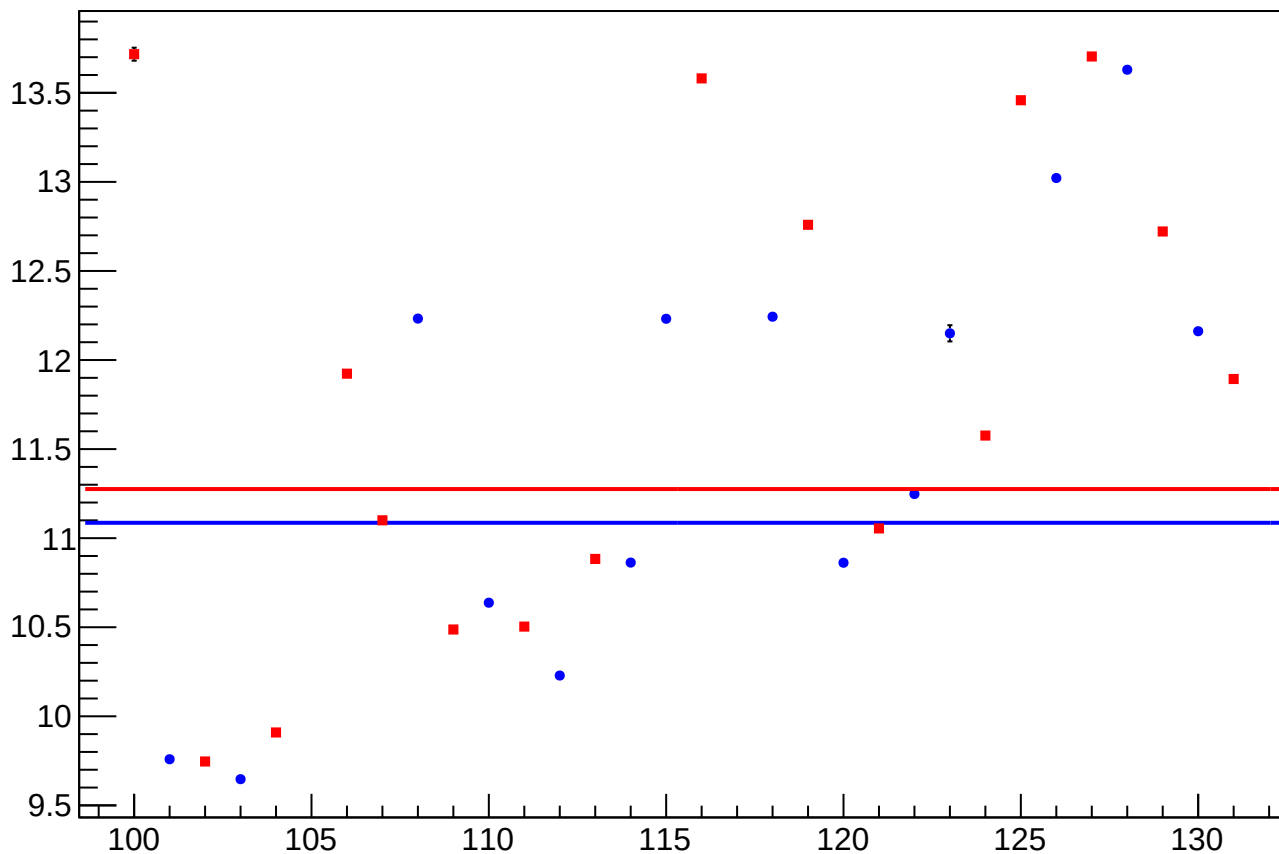
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -10.770+/-3.371  $\chi^2/\text{NDF}$ : 29.7/29

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

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



Right In: 11.086+/-0.003  $\chi^2/\text{NDF}$ : 132043.5/13

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

Right Out: 11.276+/-0.003  $\chi^2/\text{NDF}$ : 148083.7/15

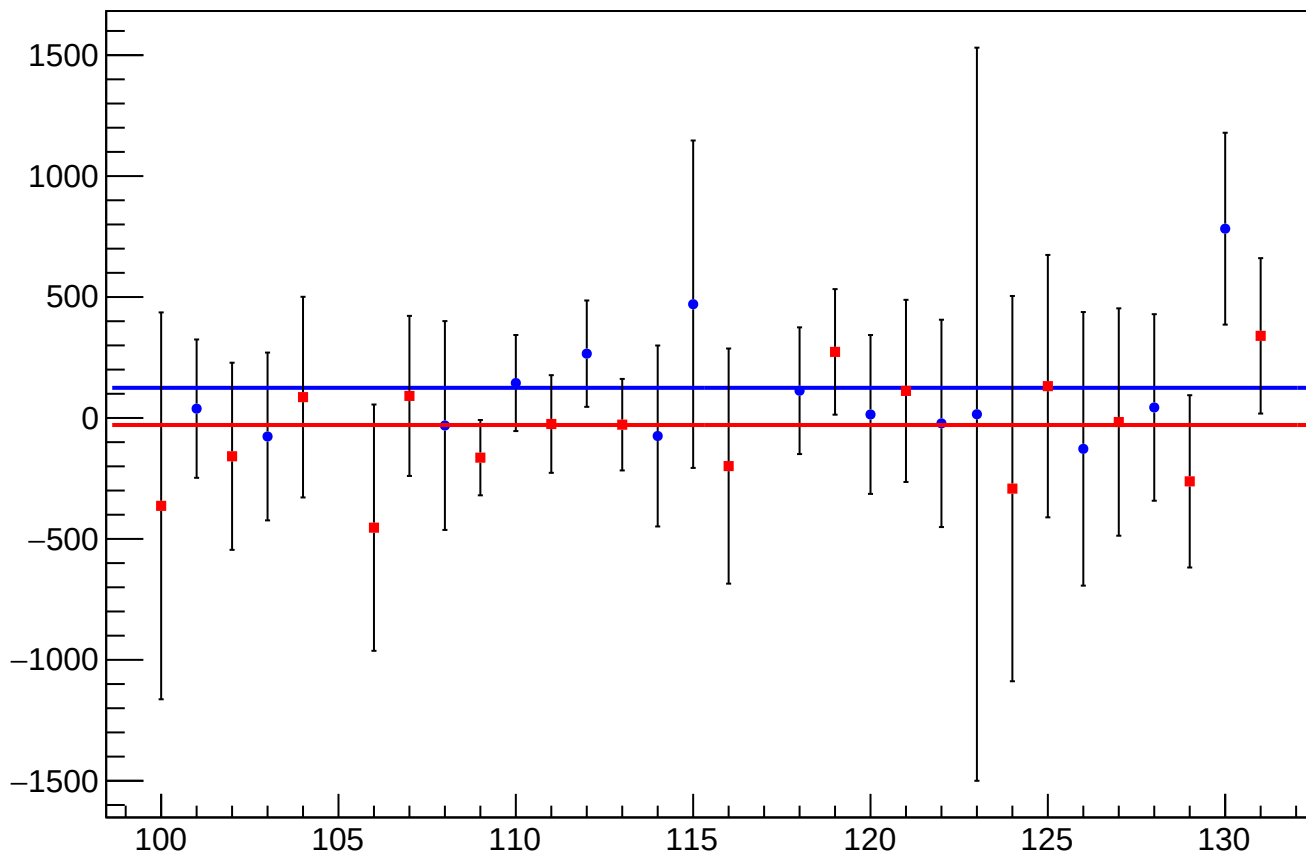
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 11.186+/-0.002  $\chi^2/\text{NDF}$ : 281703.0/29

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

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



Right In: 124.636 $\pm$ 88.658  $\chi^2$ /NDF: 4.8/13

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

Right Out: -29.056 $\pm$ 75.814  $\chi^2$ /NDF: 5.5/15

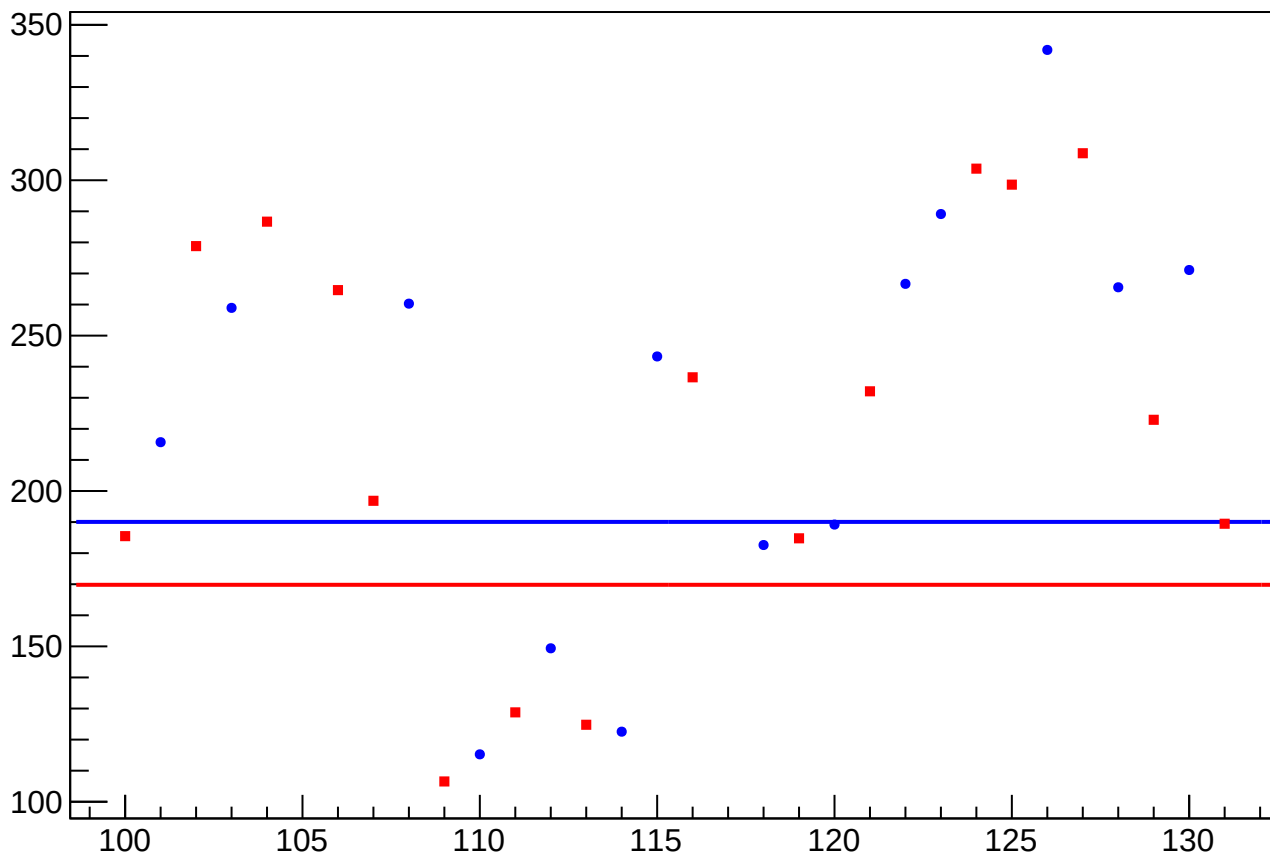
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 35.861 $\pm$ 57.620  $\chi^2$ /NDF: 12.0/29

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

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



Right In: 190.057+/-0.063  $\chi^2/\text{NDF}$ : 956202.6/13

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

Right Out: 169.815+/-0.054  $\chi^2/\text{NDF}$ : 1422310.5/15

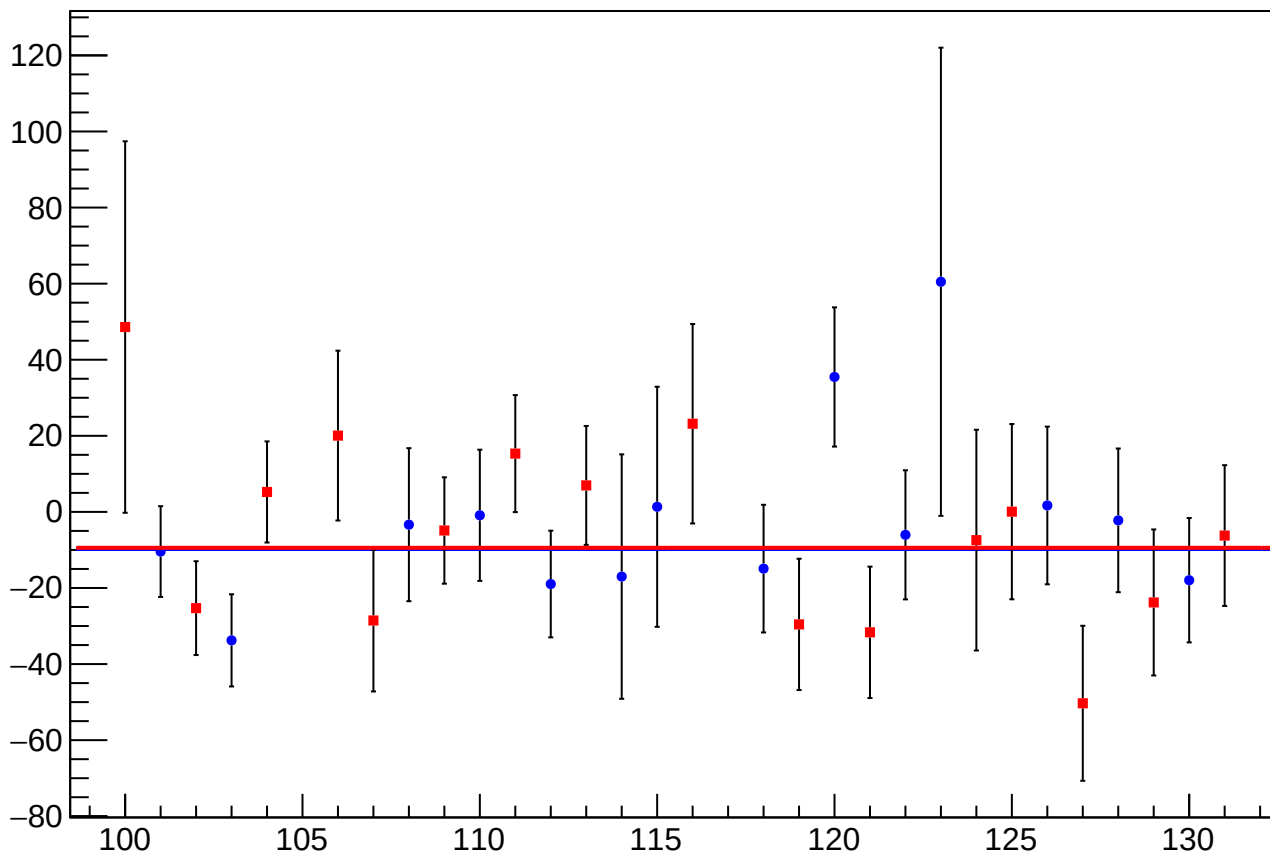
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 178.365+/-0.041  $\chi^2/\text{NDF}$ : 2438732.5/29

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

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



Right In: -9.755+/-4.668  $\chi^2/\text{NDF}$ : 13.2/13

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

Right Out: -9.437+/-4.460  $\chi^2/\text{NDF}$ : 20.2/15

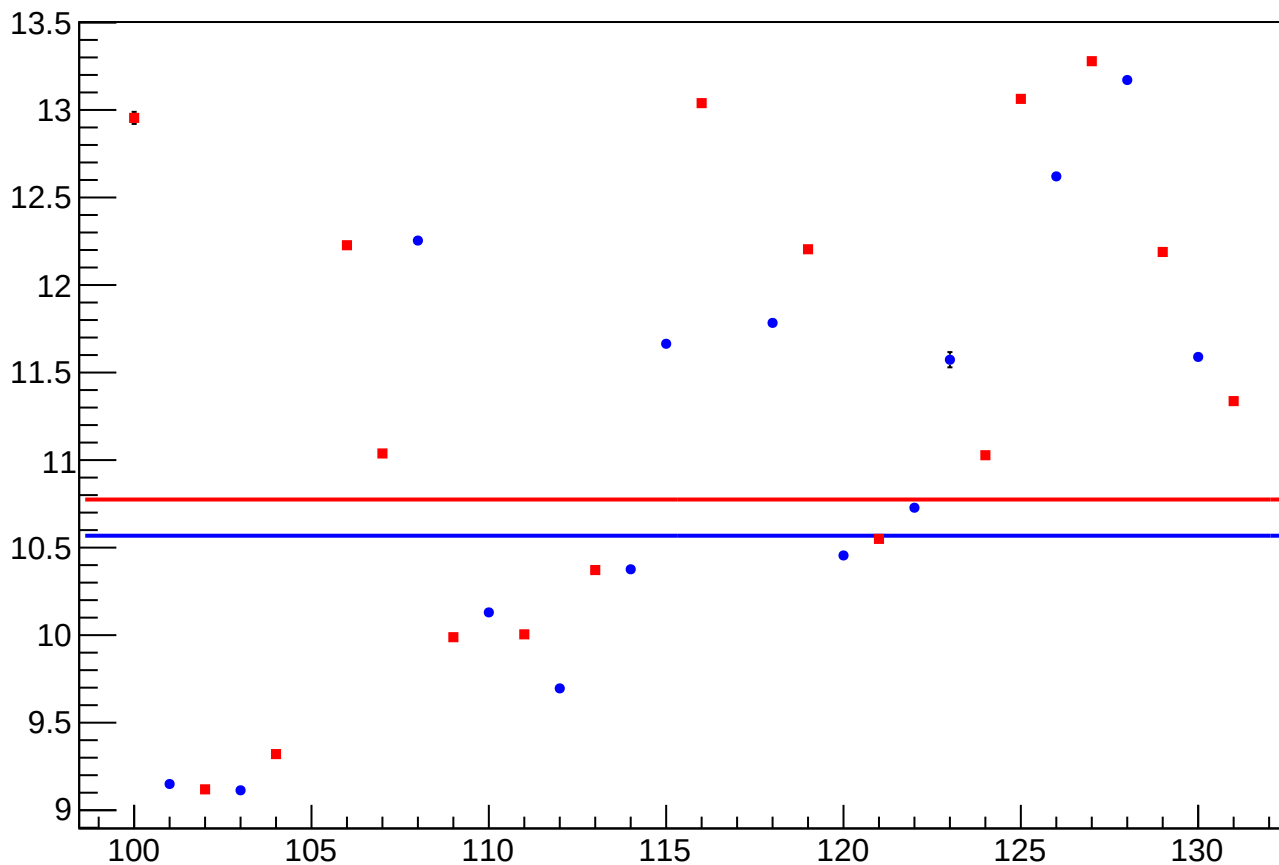
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -9.589+/-3.225  $\chi^2/\text{NDF}$ : 33.4/29

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

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



Right In: 10.568+/-0.003  $\chi^2/\text{NDF}$ : 159345.2/13

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

Right Out: 10.775+/-0.003  $\chi^2/\text{NDF}$ : 177315.5/15

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

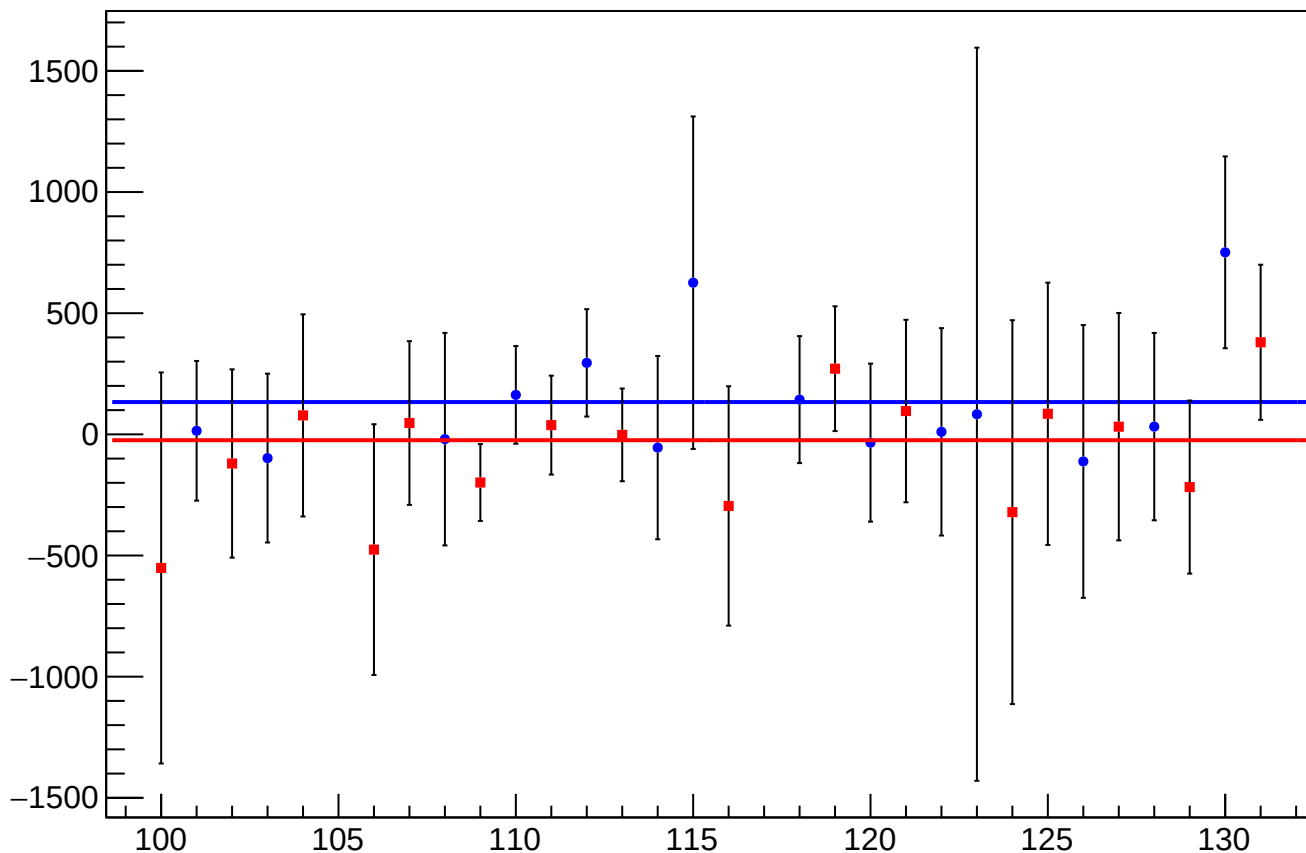
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 10.676+/-0.002  $\chi^2/\text{NDF}$ : 338712.2/29

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



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



Right In: 133.255 $\pm$ 89.214  $\chi^2$ /NDF: 5.1/13

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

Right Out: -24.137 $\pm$ 76.513  $\chi^2$ /NDF: 6.5/15

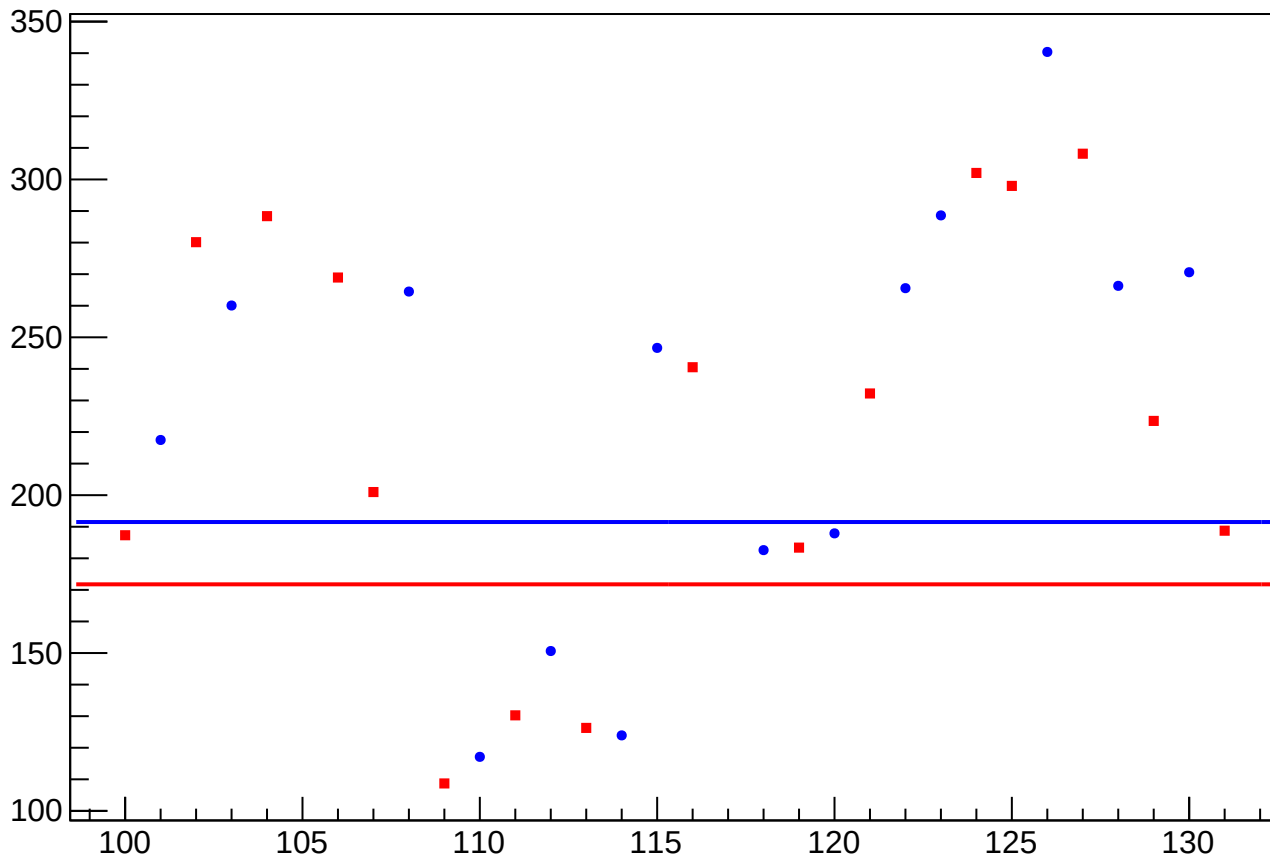
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 42.566 $\pm$ 58.079  $\chi^2$ /NDF: 13.4/29

- 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: 191.495+/-0.063  $\chi^2/\text{NDF}$ : 931397.9/13

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

Right Out: 171.761+/-0.054  $\chi^2/\text{NDF}$ : 1383707.6/15

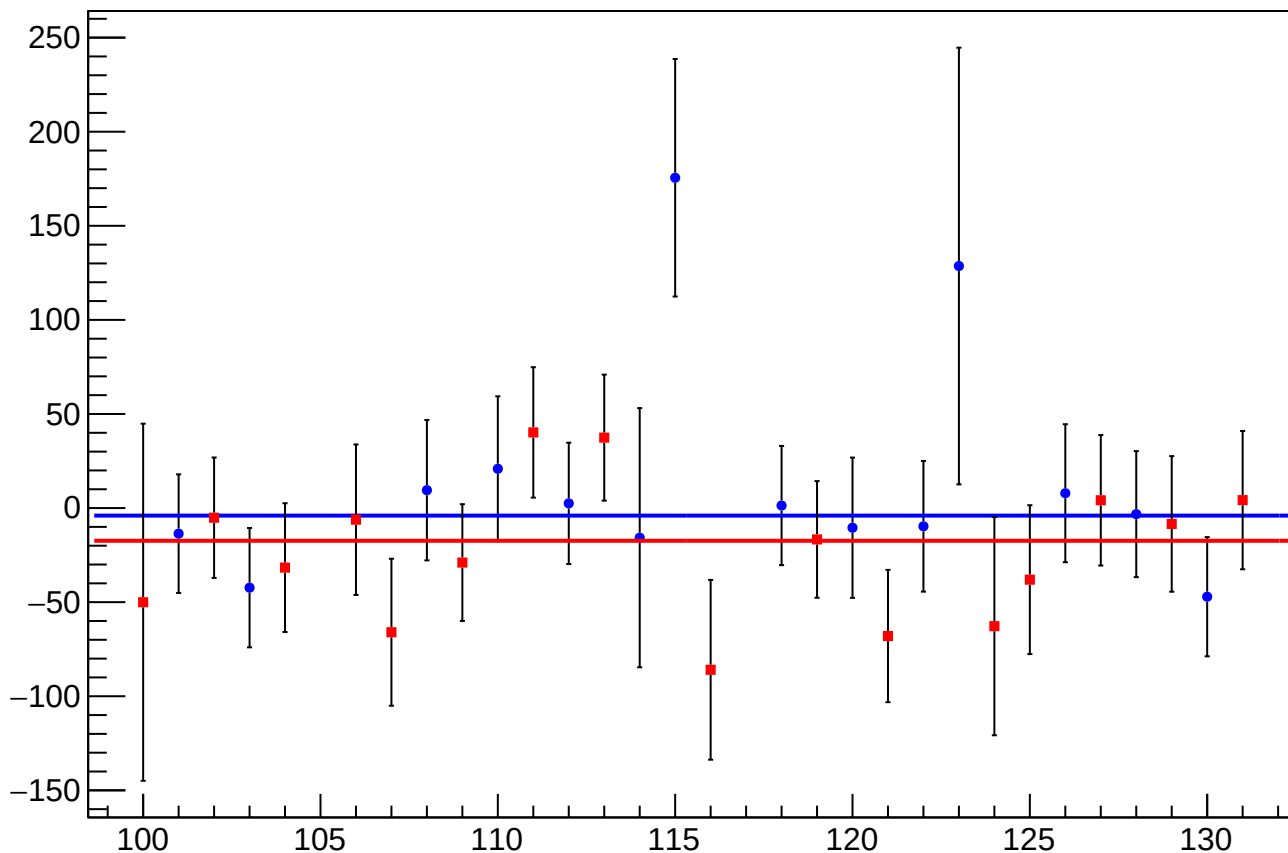
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 180.124+/-0.041  $\chi^2/\text{NDF}$ : 2371492.0/29

- 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:  $-4.005 \pm 9.964$   $\chi^2/\text{NDF}$ : 13.6/13

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

Right Out:  $-17.389 \pm 9.303$   $\chi^2/\text{NDF}$ : 13.5/15

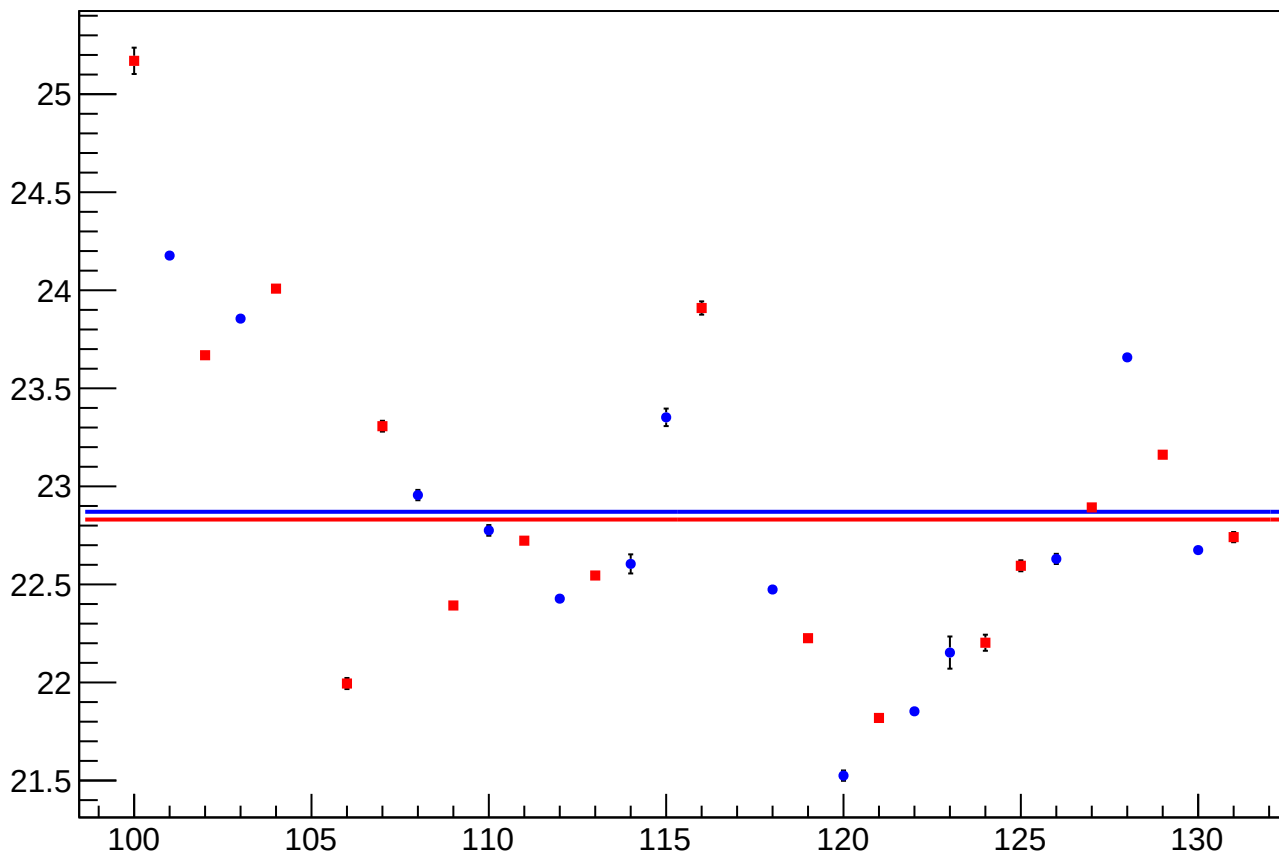
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

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

All:  $-11.156 \pm 6.800$   $\chi^2/\text{NDF}$ : 28.0/29

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

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



Right In: 22.870 $\pm$ 0.007  $\chi^2$ /NDF: 11896.9/13

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

Right Out: 22.831 $\pm$ 0.007  $\chi^2$ /NDF: 10622.5/15

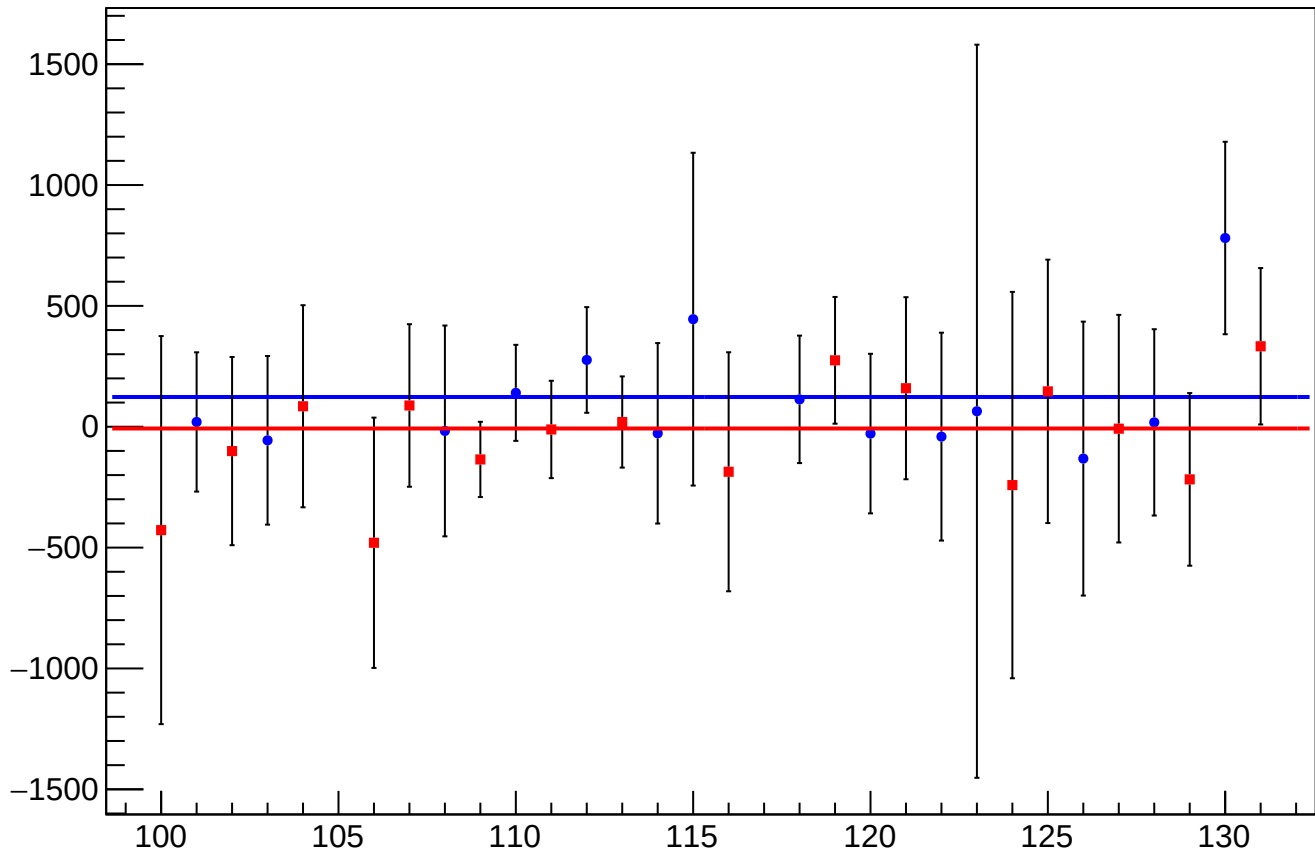
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 22.849 $\pm$ 0.005  $\chi^2$ /NDF: 22536.3/29

- 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: 123.031 $\pm$ 88.867  $\chi^2$ /NDF: 4.7/13

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

Right Out: -7.234 $\pm$ 76.024  $\chi^2$ /NDF: 5.1/15

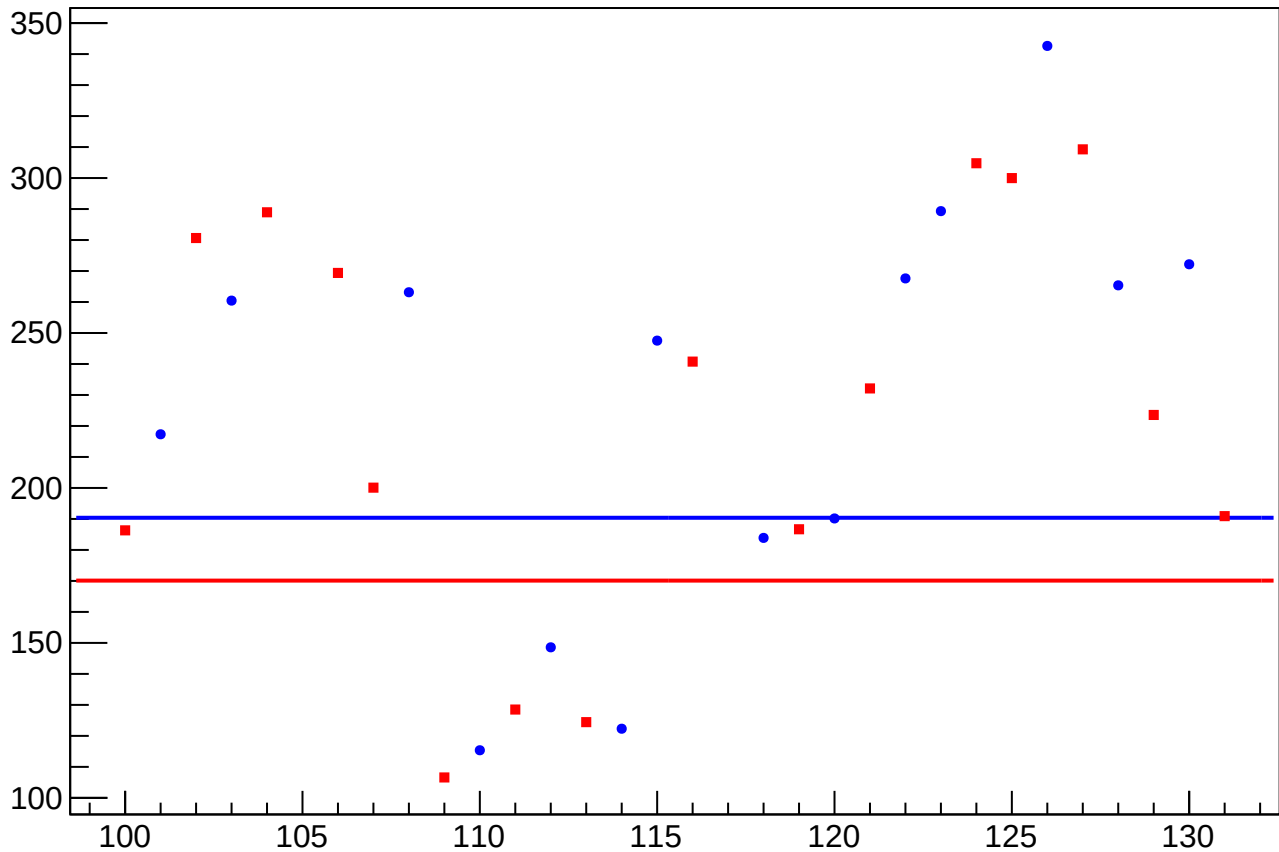
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 47.813 $\pm$ 57.769  $\chi^2$ /NDF: 11.1/29

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

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



Right In: 190.381+/-0.063  $\chi^2/\text{NDF}$ : 971171.7/13

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

Right Out: 170.105+/-0.054  $\chi^2/\text{NDF}$ : 1449981.2/15

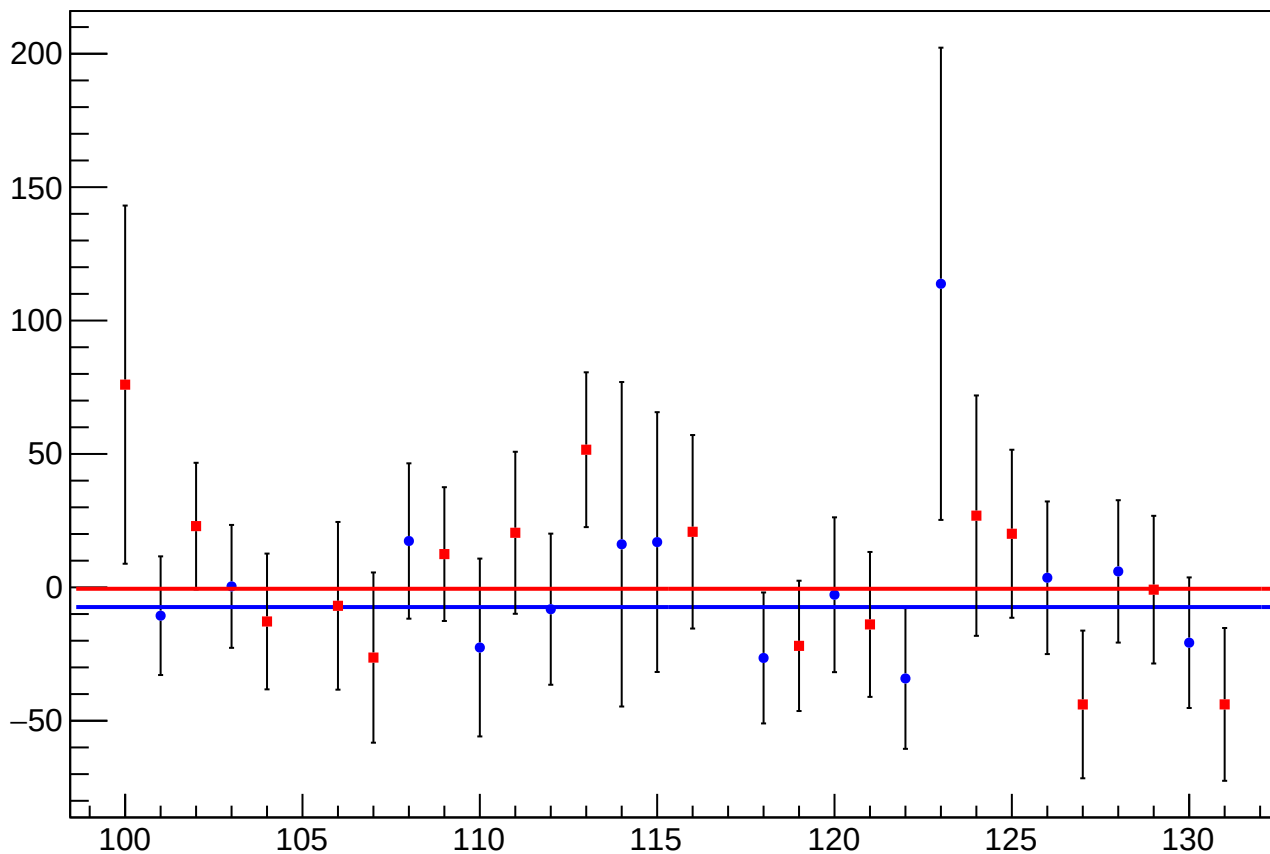
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 178.673+/-0.041  $\chi^2/\text{NDF}$ : 2481268.8/29

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

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



Right In: -7.384+/-7.753  $\chi^2/\text{NDF}$ : 5.7/13

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

Right Out: -0.531+/-7.347  $\chi^2/\text{NDF}$ : 14.1/15

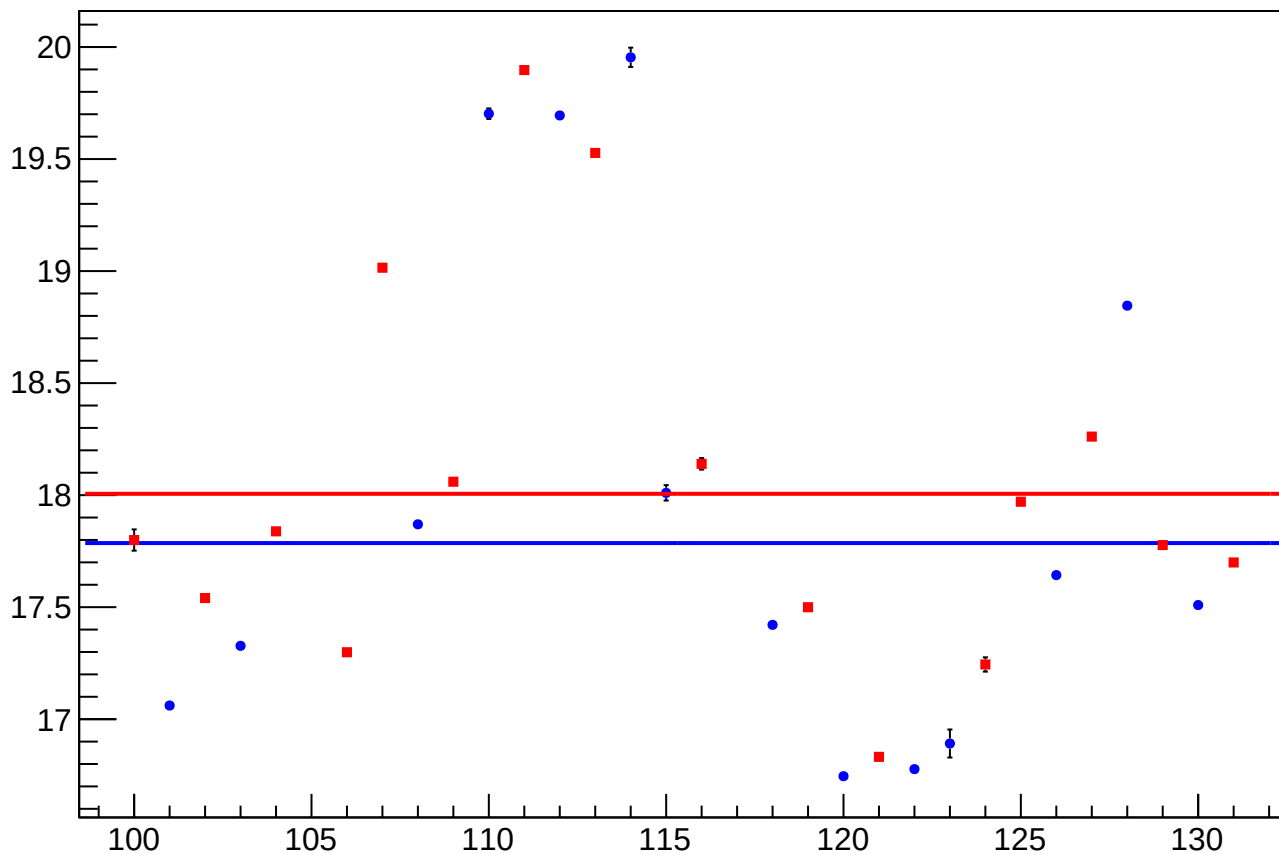
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -3.773+/-5.333  $\chi^2/\text{NDF}$ : 20.2/29

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

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



Right In: 17.786 $\pm$ 0.005  $\chi^2$ /NDF: 30819.0/13

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

Right Out: 18.006 $\pm$ 0.005  $\chi^2$ /NDF: 22890.7/15

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

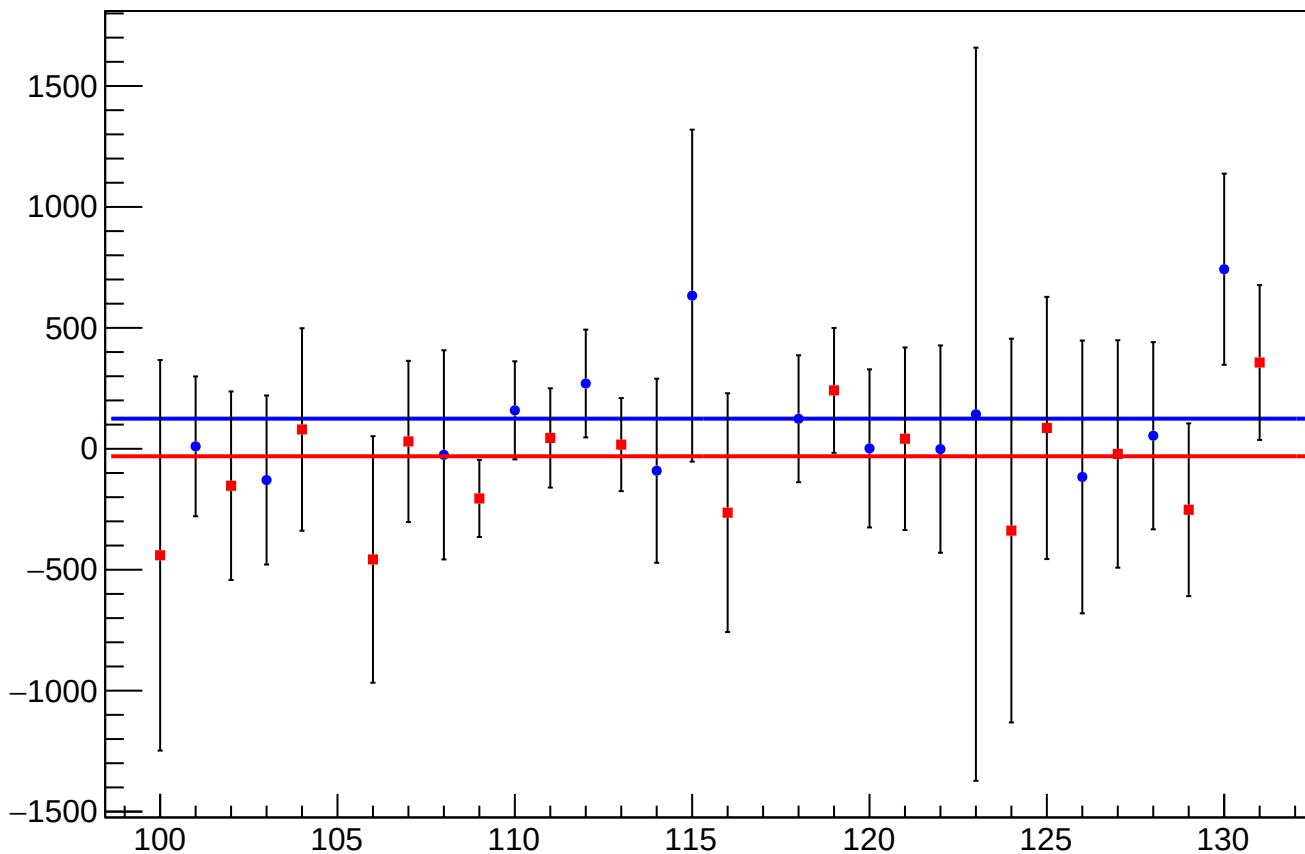
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 17.902 $\pm$ 0.004  $\chi^2$ /NDF: 54557.6/29

- 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: 124.630 $\pm$ 89.443  $\chi^2$ /NDF: 5.0/13

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

Right Out: -30.886 $\pm$ 76.696  $\chi^2$ /NDF: 6.0/15

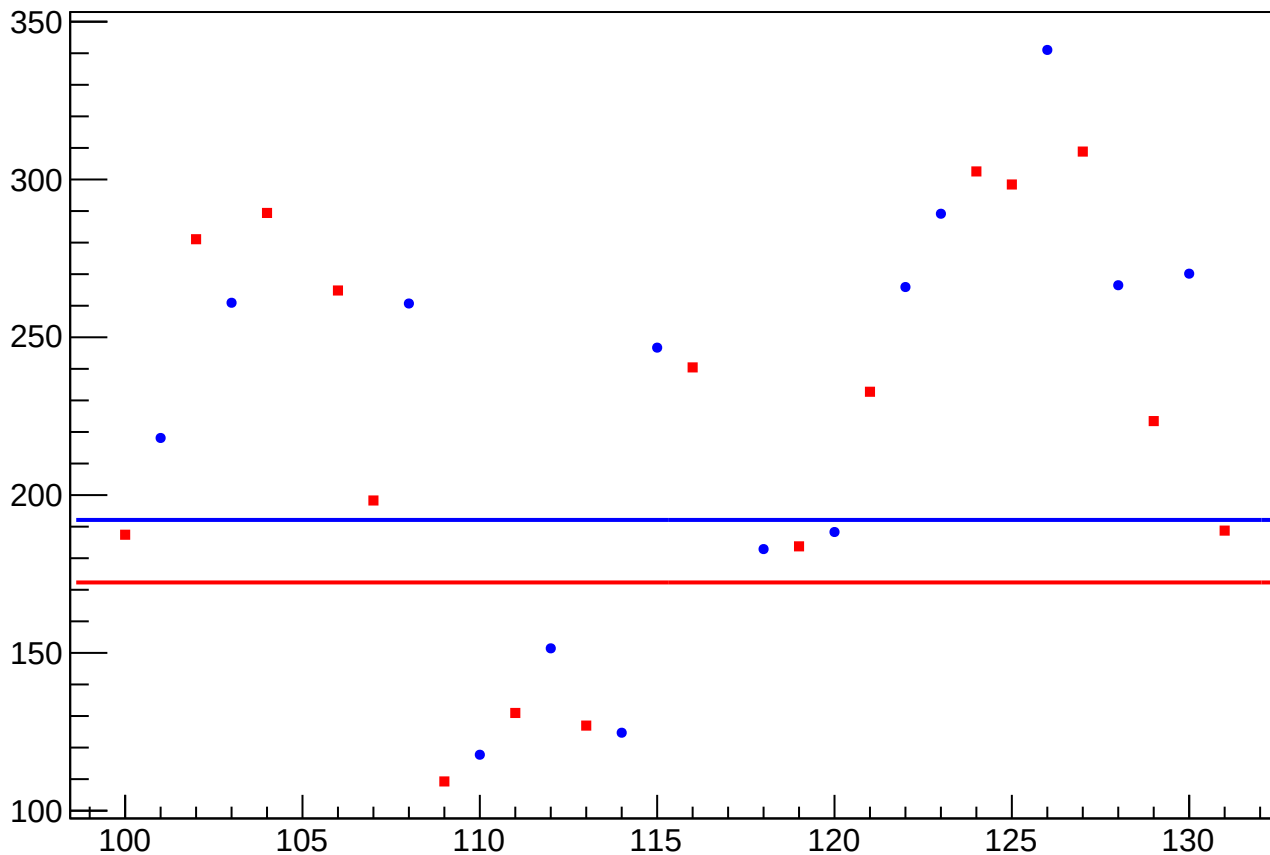
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 35.009 $\pm$ 58.222  $\chi^2$ /NDF: 12.7/29

- 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: 192.130+/-0.063  $\chi^2/\text{NDF}$ : 916981.1/13

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

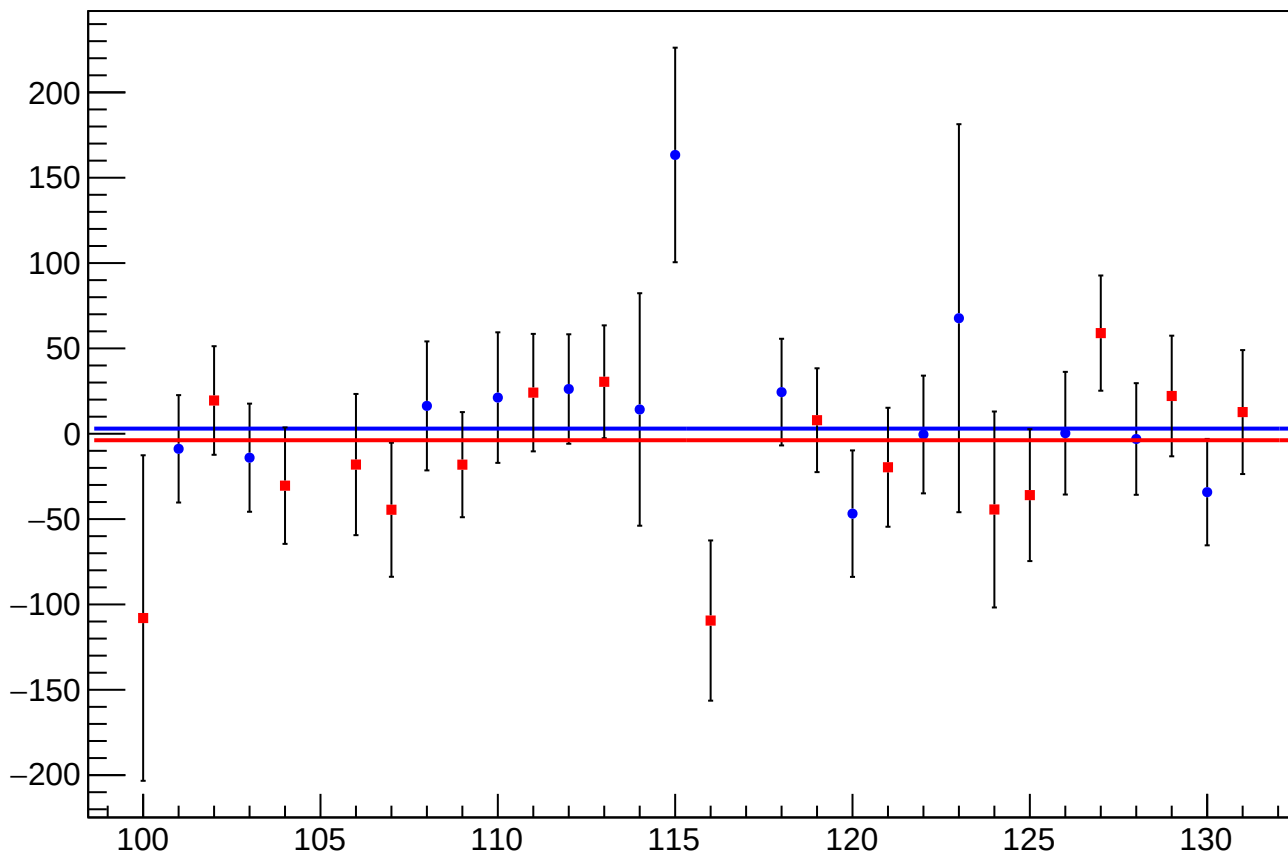
Right Out: 172.320+/-0.054  $\chi^2/\text{NDF}$ : 1366088.1/15

All: 180.714+/-0.041  $\chi^2/\text{NDF}$ : 2339605.4/29

- 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

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



Right In: 3.015+/-9.881  $\chi^2/\text{NDF}$ : 11.9/13

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

Right Out: -3.800+/-9.216  $\chi^2/\text{NDF}$ : 16.3/15

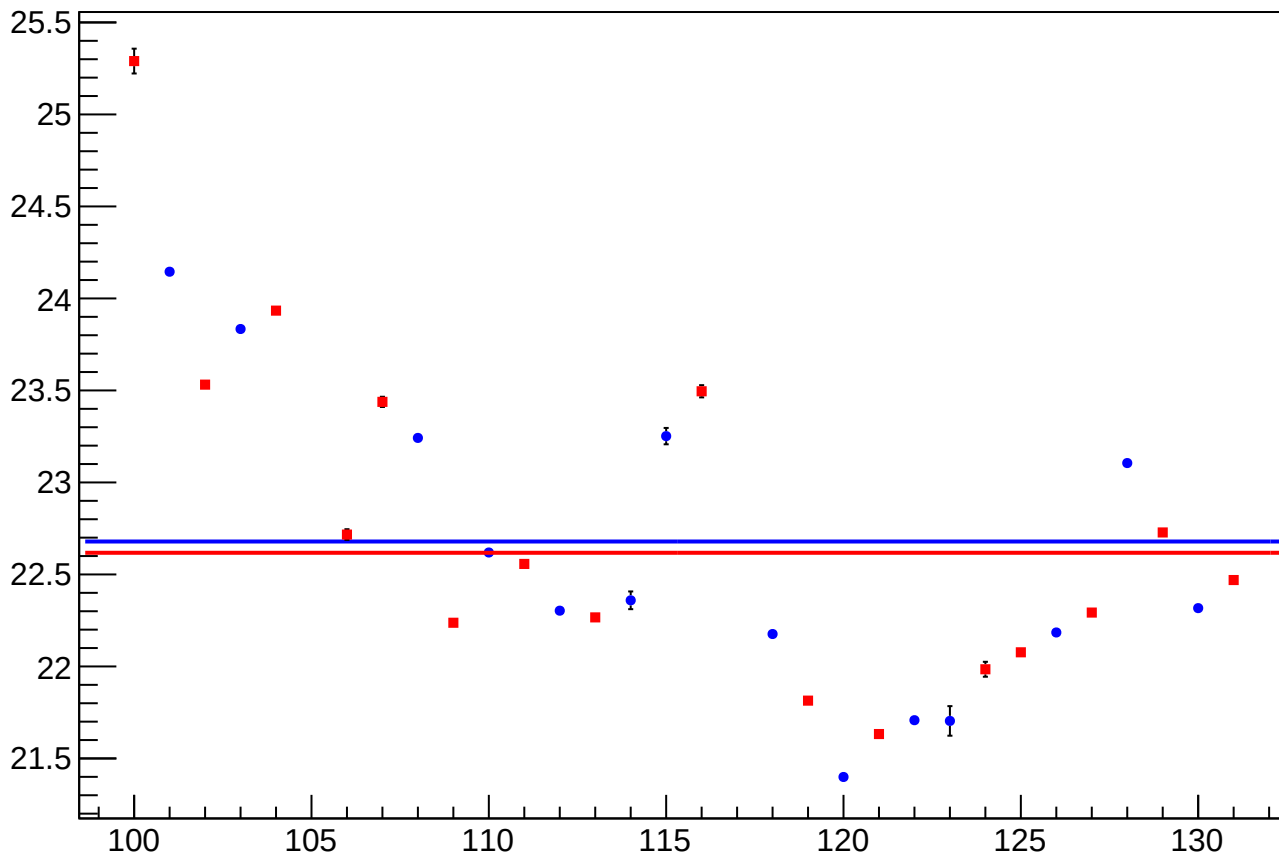
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -0.629+/-6.740  $\chi^2/\text{NDF}$ : 28.5/29

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

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



Right In: 22.679+/-0.007  $\chi^2/\text{NDF}$ : 13560.1/13

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

Right Out: 22.618+/-0.007  $\chi^2/\text{NDF}$ : 12184.8/15

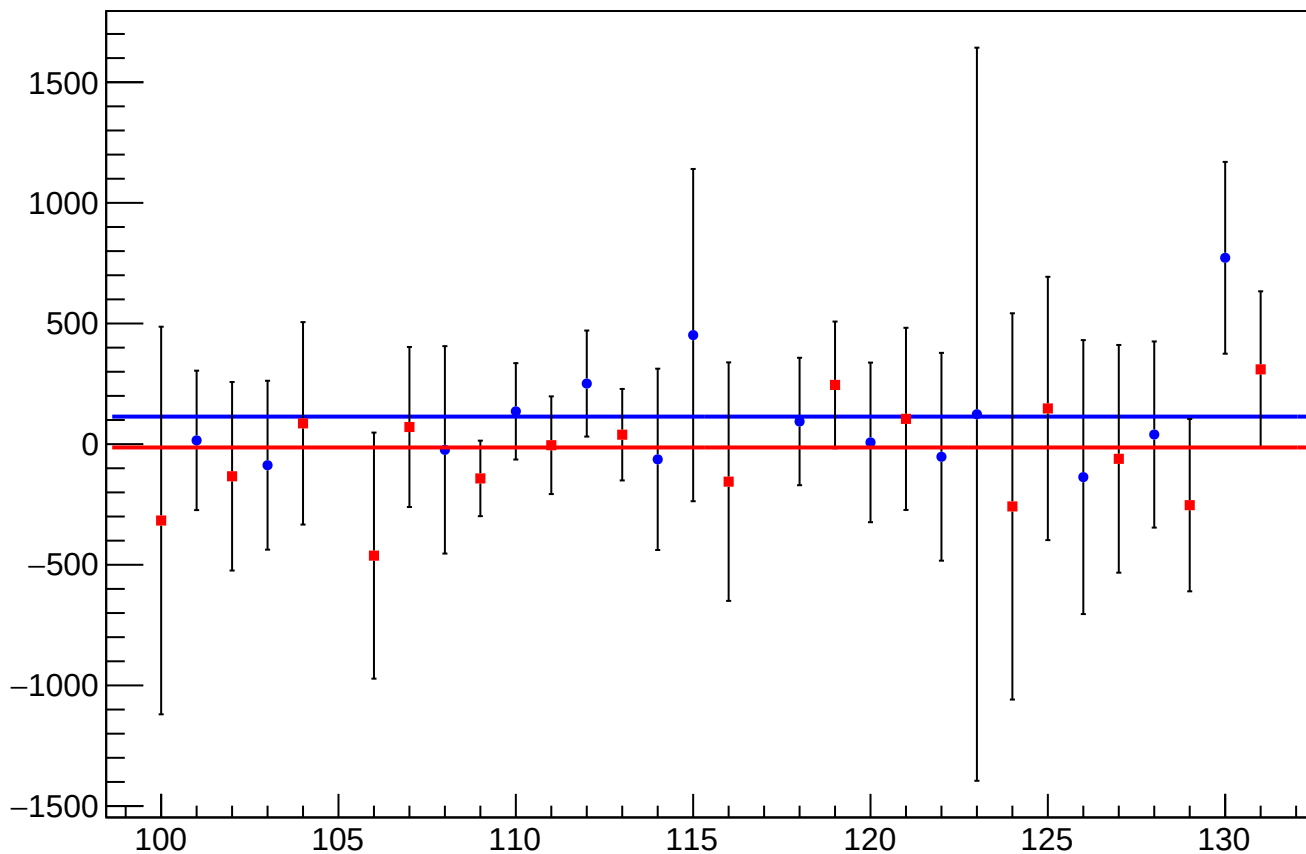
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 22.646+/-0.005  $\chi^2/\text{NDF}$ : 25786.1/29

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

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



Right In: 114.115 $\pm$ 89.100  $\chi^2$ /NDF: 4.6/13

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

Right Out: -13.761 $\pm$ 76.213  $\chi^2$ /NDF: 4.7/15

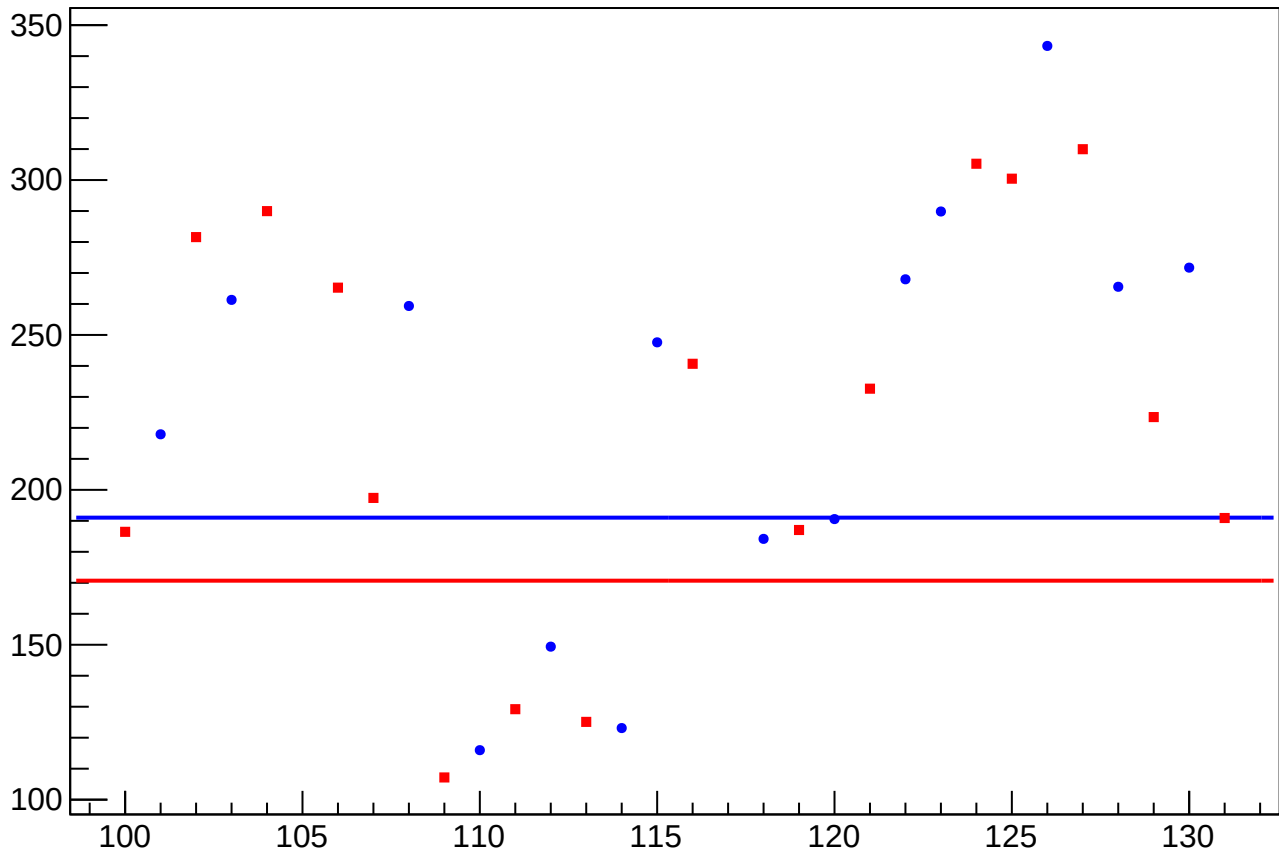
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 40.269 $\pm$ 57.916  $\chi^2$ /NDF: 10.5/29

- 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: 191.029+/-0.063  $\chi^2/\text{NDF}$ : 956090.0/13

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

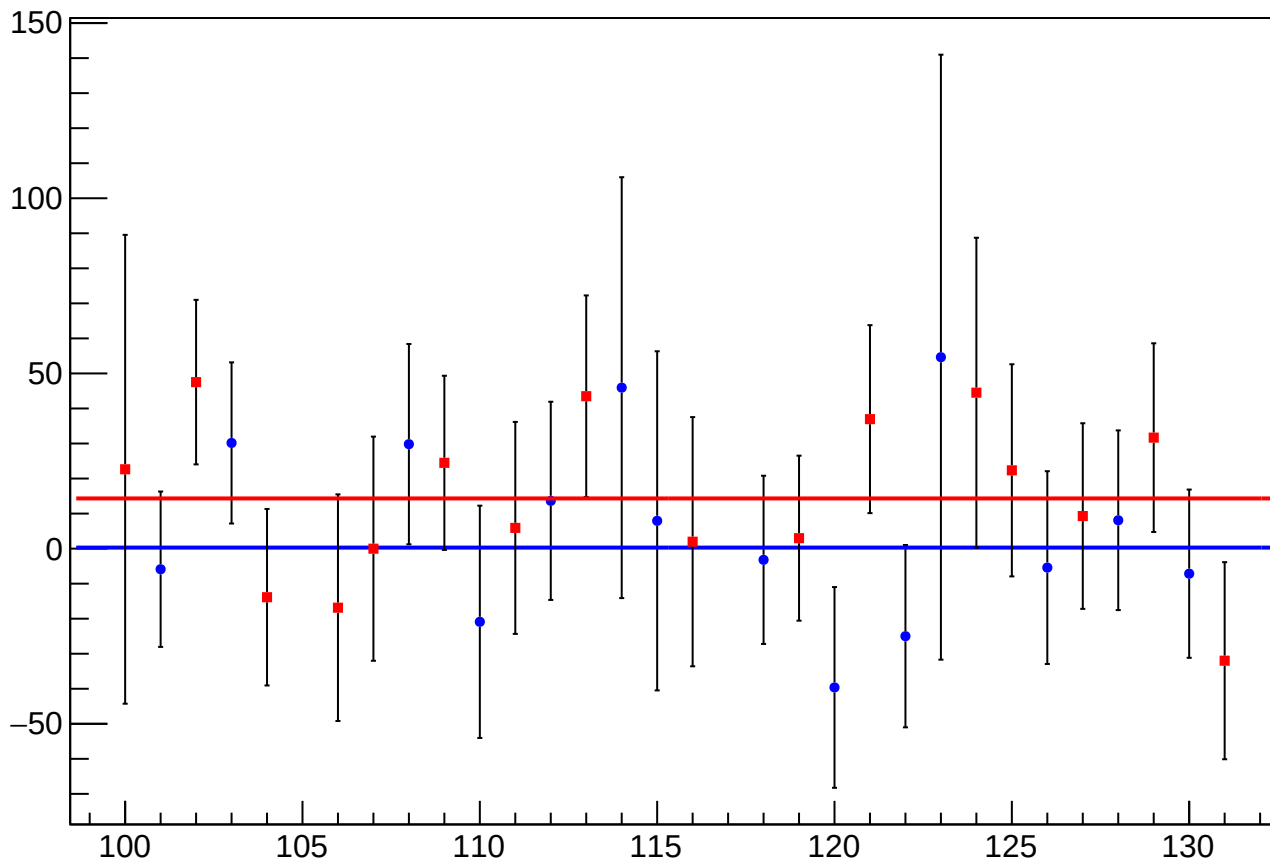
Right Out: 170.683+/-0.054  $\chi^2/\text{NDF}$ : 1431496.5/15

All: 179.280+/-0.041  $\chi^2/\text{NDF}$ : 2447810.4/29

- 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

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



Right In: 0.292+/-7.635  $\chi^2/\text{NDF}$ : 7.6/13

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

Right Out: 14.322+/-7.232  $\chi^2/\text{NDF}$ : 10.4/15

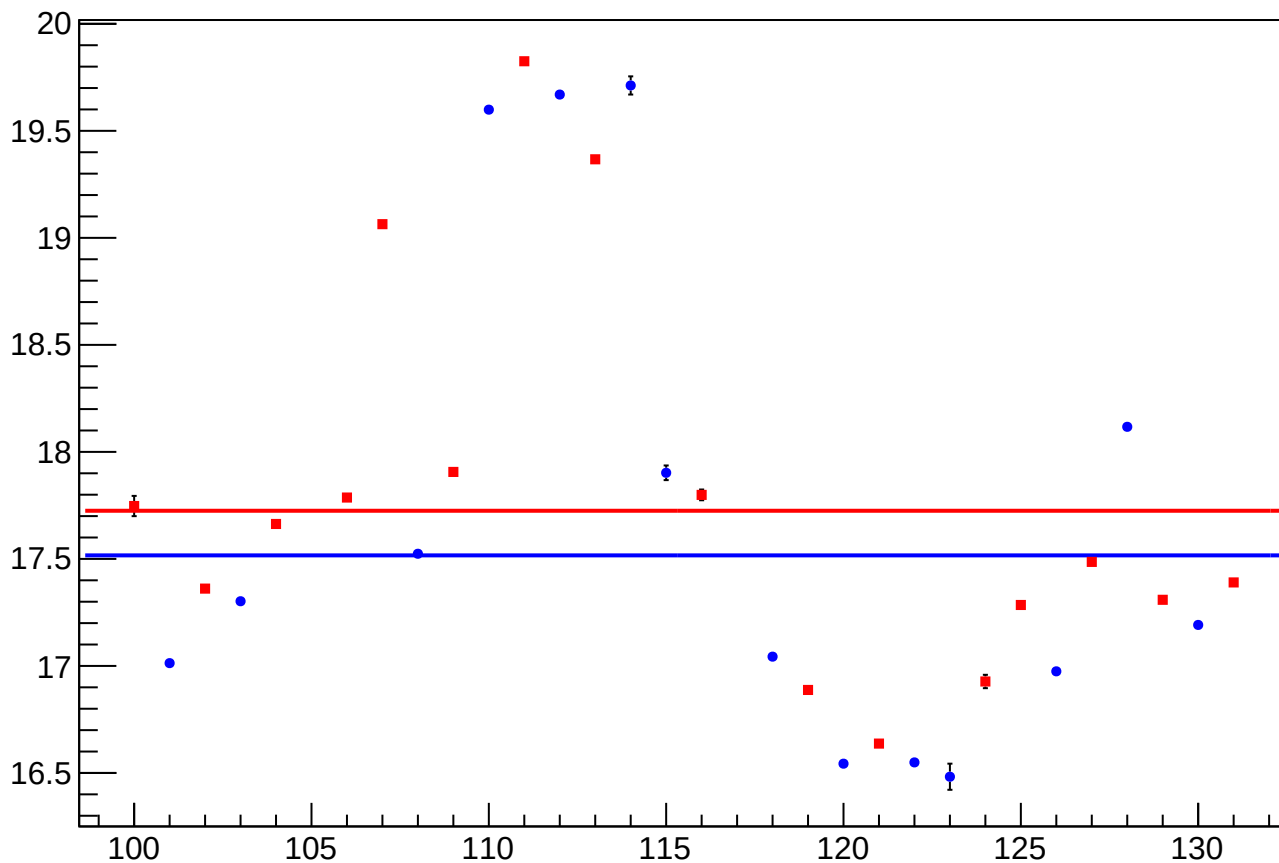
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 7.688+/-5.250  $\chi^2/\text{NDF}$ : 19.8/29

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

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



Right In: 17.517+/-0.005  $\chi^2/\text{NDF}$ : 31861.7/13

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

Right Out: 17.725+/-0.005  $\chi^2/\text{NDF}$ : 28091.0/15

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

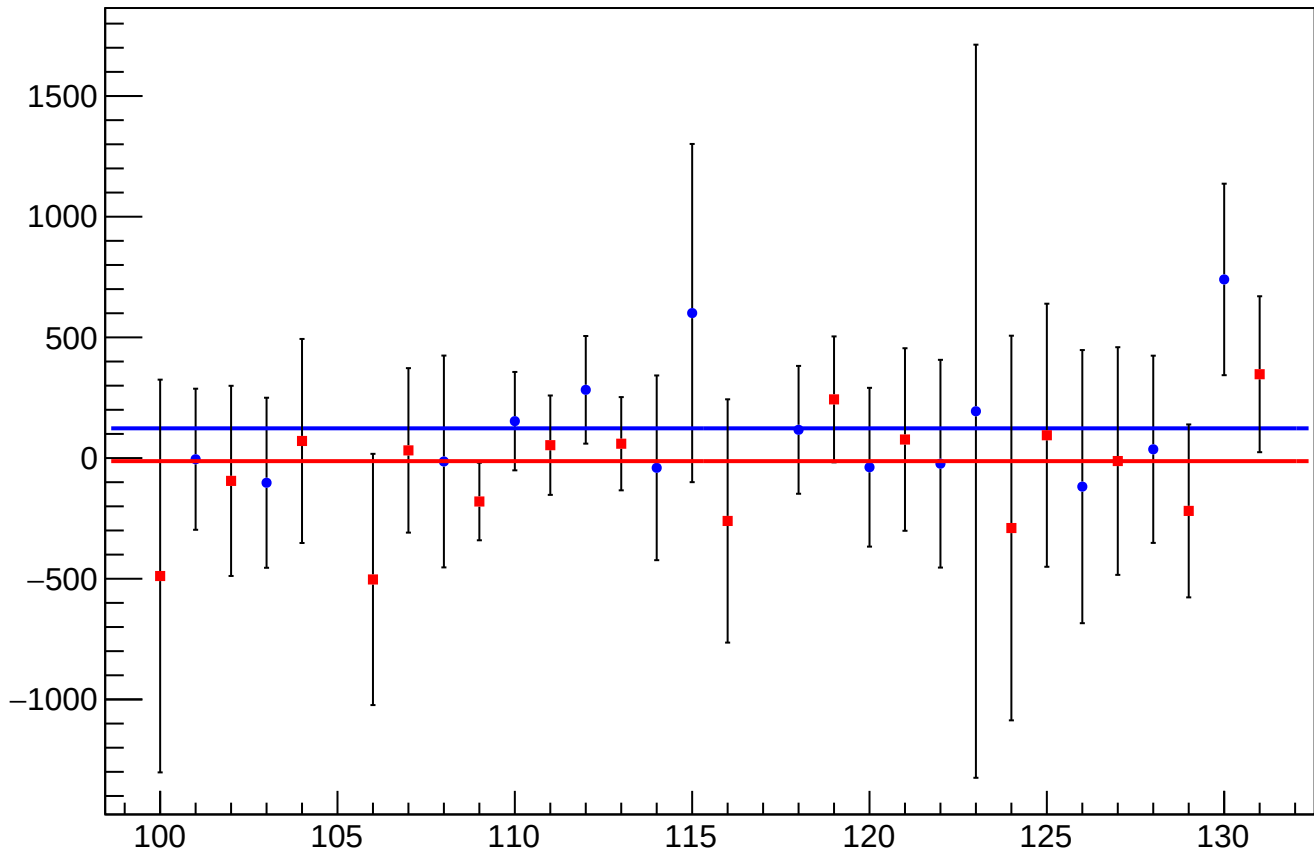
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 17.626+/-0.004  $\chi^2/\text{NDF}$ : 60738.6/29

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



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



Right In: 123.214 $\pm$ 89.997  $\chi^2$ /NDF: 4.9/13

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

Right Out: -12.733 $\pm$ 77.287  $\chi^2$ /NDF: 5.6/15

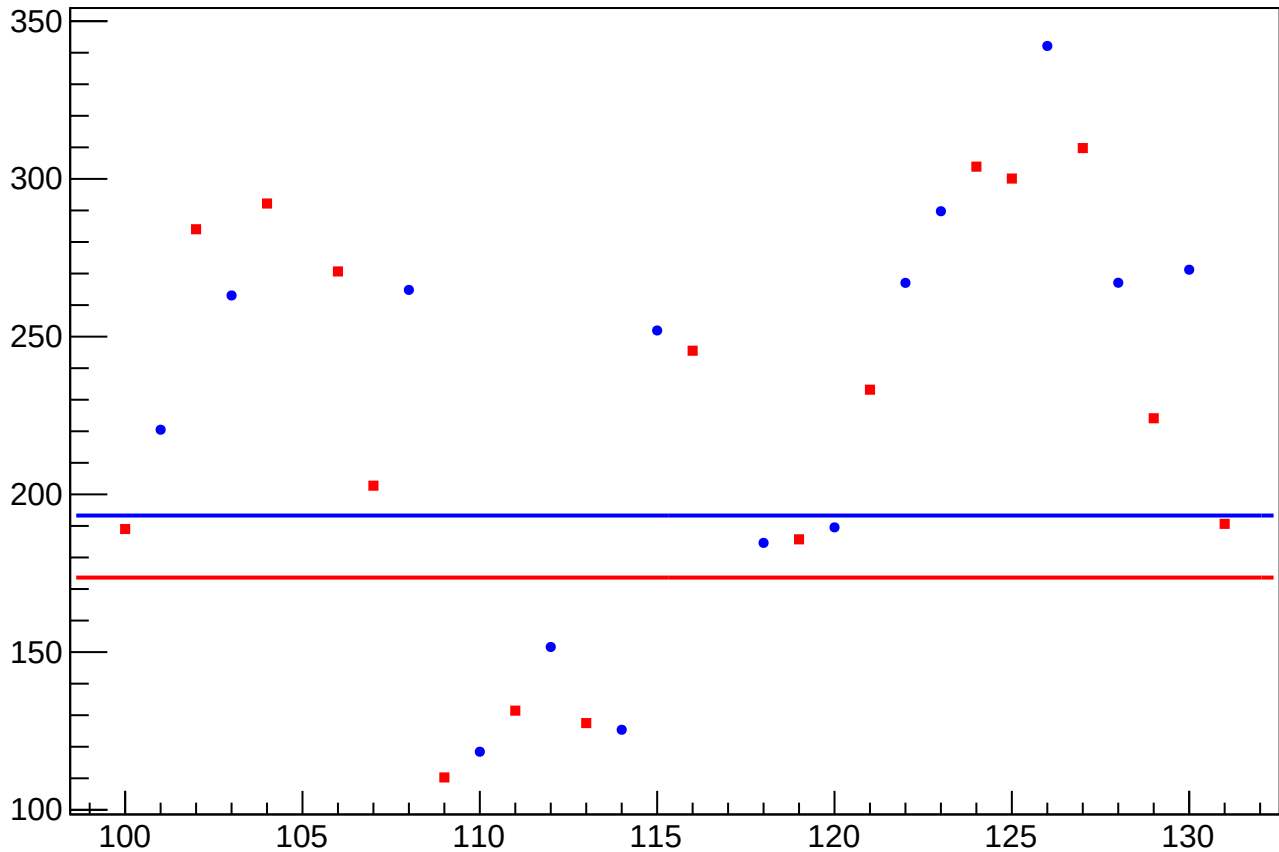
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 44.971 $\pm$ 58.634  $\chi^2$ /NDF: 11.9/29

- 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: 193.294 $\pm$ 0.064  $\chi^2$ /NDF: 922740.3/13

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

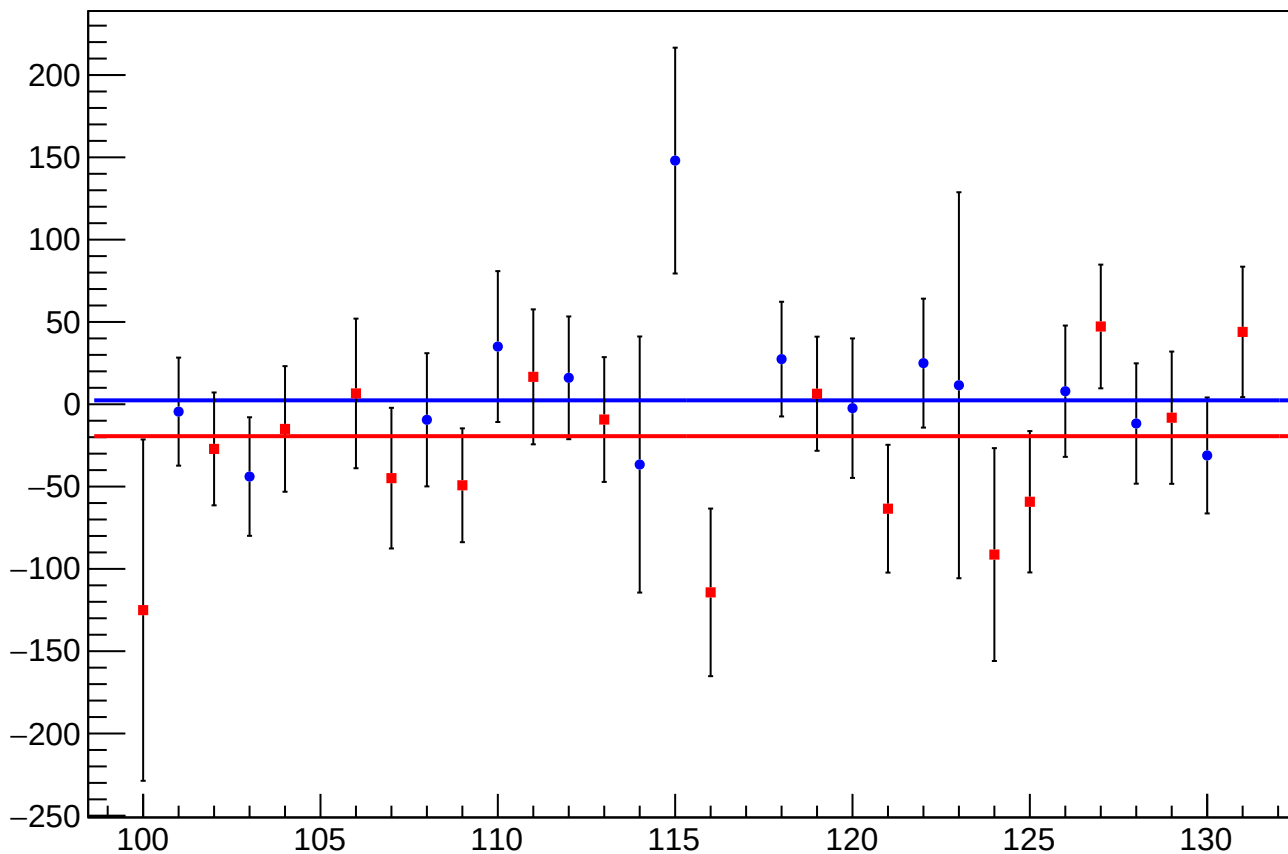
Right Out: 173.630 $\pm$ 0.055  $\chi^2$ /NDF: 1375963.4/15

All: 181.977 $\pm$ 0.041  $\chi^2$ /NDF: 2353654.3/29

- 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

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



Right In: 2.386 $\pm$ 11.061  $\chi^2$ /NDF: 9.1/13

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

Right Out: -19.381 $\pm$ 10.304  $\chi^2$ /NDF: 16.6/15

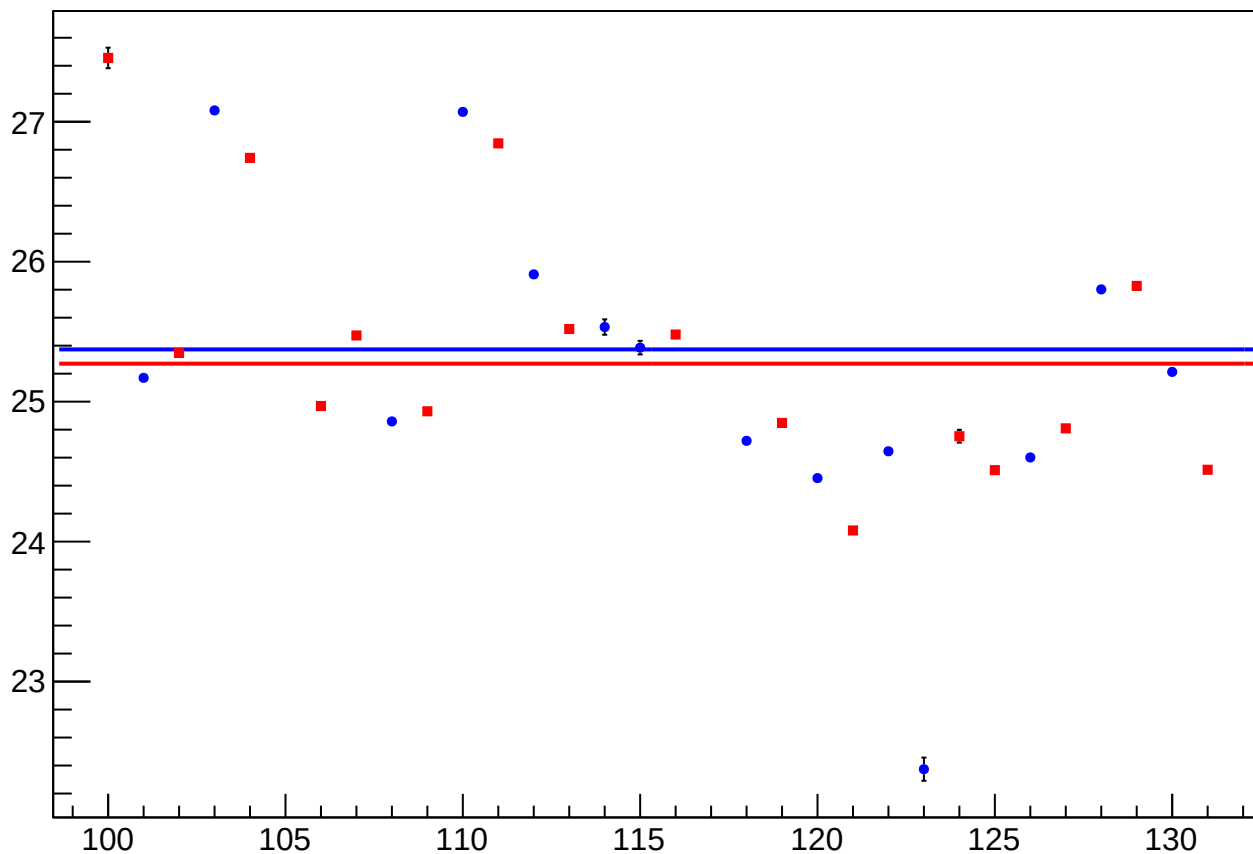
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: -9.268 $\pm$ 7.539  $\chi^2$ /NDF: 27.8/29

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

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



Right In: 25.373+/-0.008  $\chi^2/\text{NDF}$ : 12773.2/13

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

Right Out: 25.271+/-0.007  $\chi^2/\text{NDF}$ : 11619.9/15

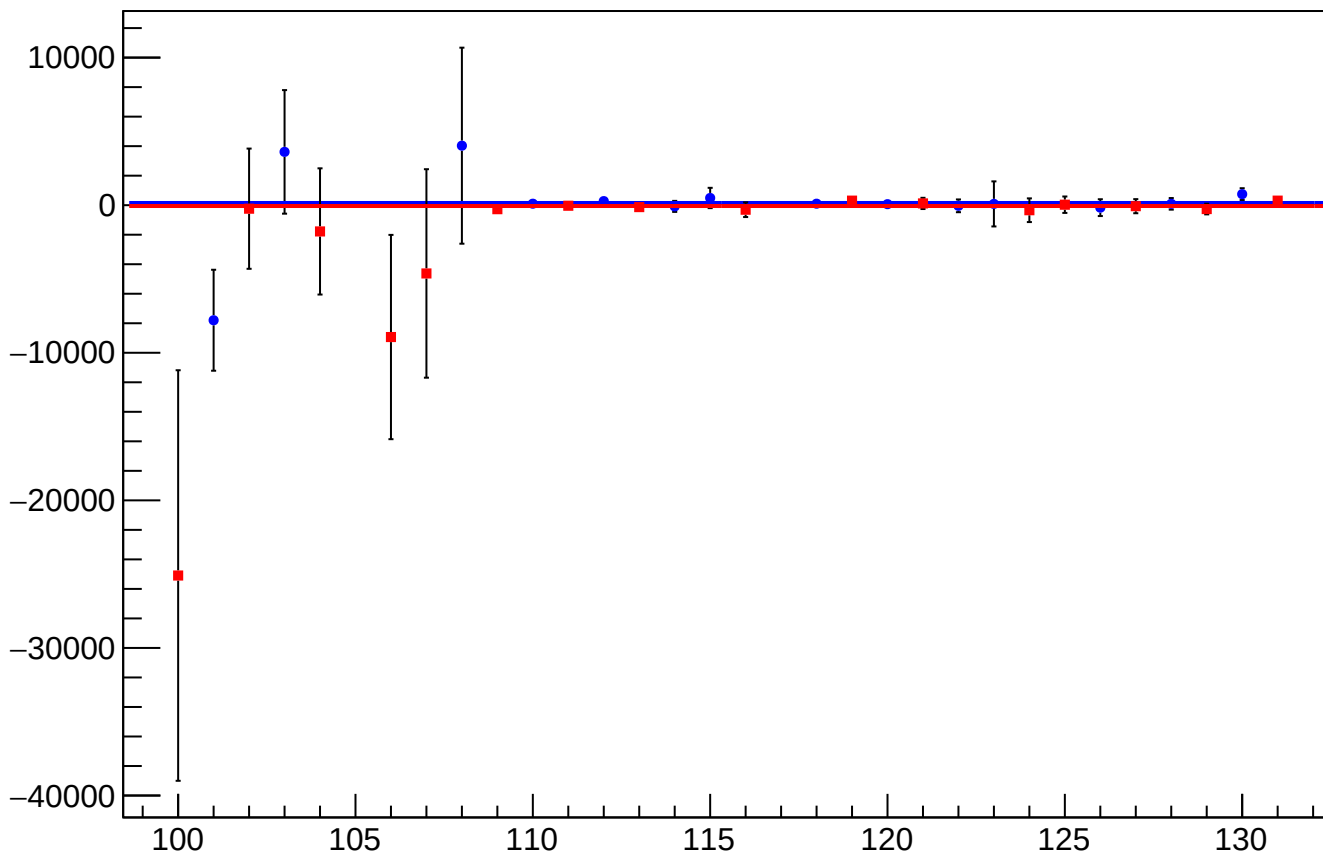
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 25.319+/-0.005  $\chi^2/\text{NDF}$ : 24483.6/29

- 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: 149.627 $\pm$ 100.337  $\chi^2$ /NDF: 10.3/13

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

Right Out: -55.826 $\pm$ 89.534  $\chi^2$ /NDF: 10.6/15

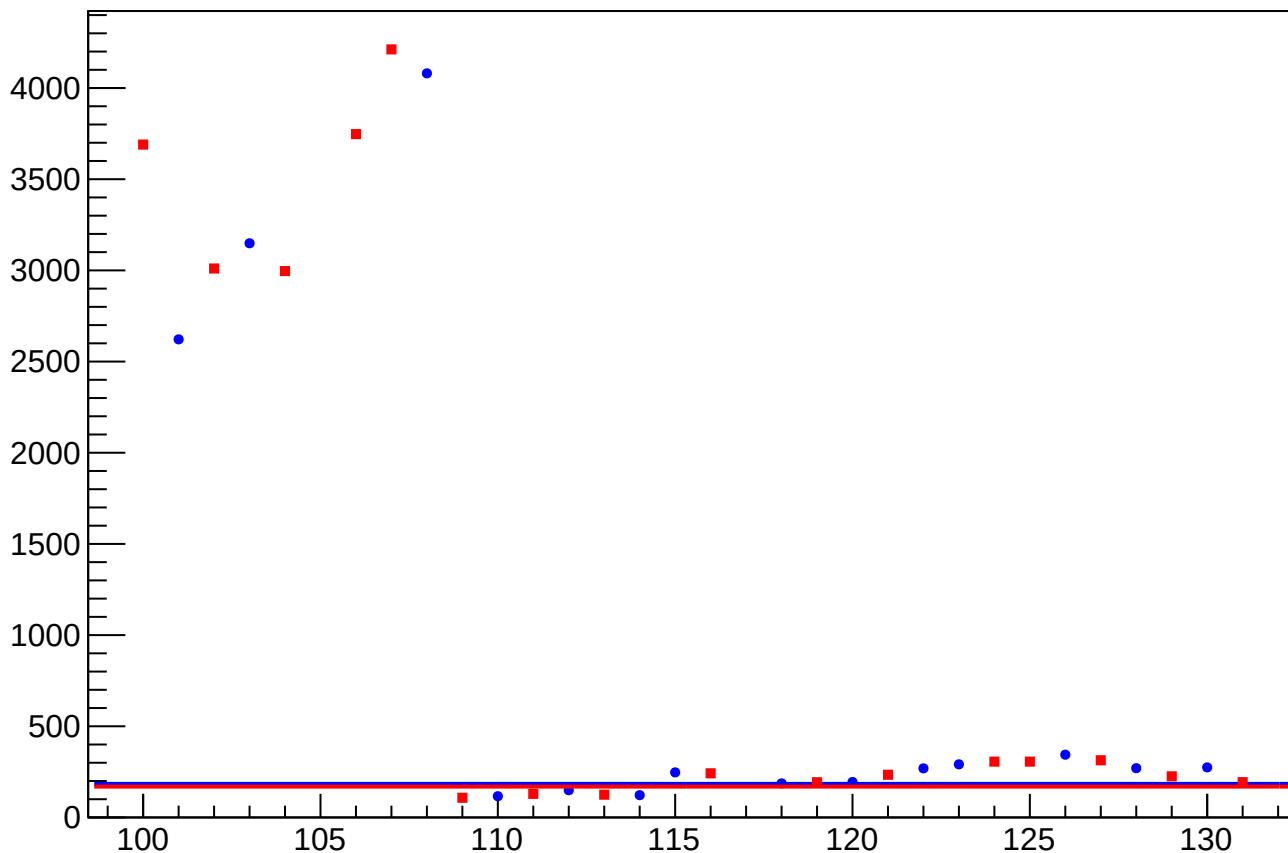
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 35.248 $\pm$ 66.804  $\chi^2$ /NDF: 23.2/29

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

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



Right In: 184.090 $\pm$ 0.071  $\chi^2$ /NDF: 3501354.7/13

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

Right Out: 169.163 $\pm$ 0.063  $\chi^2$ /NDF: 4052699.4/15

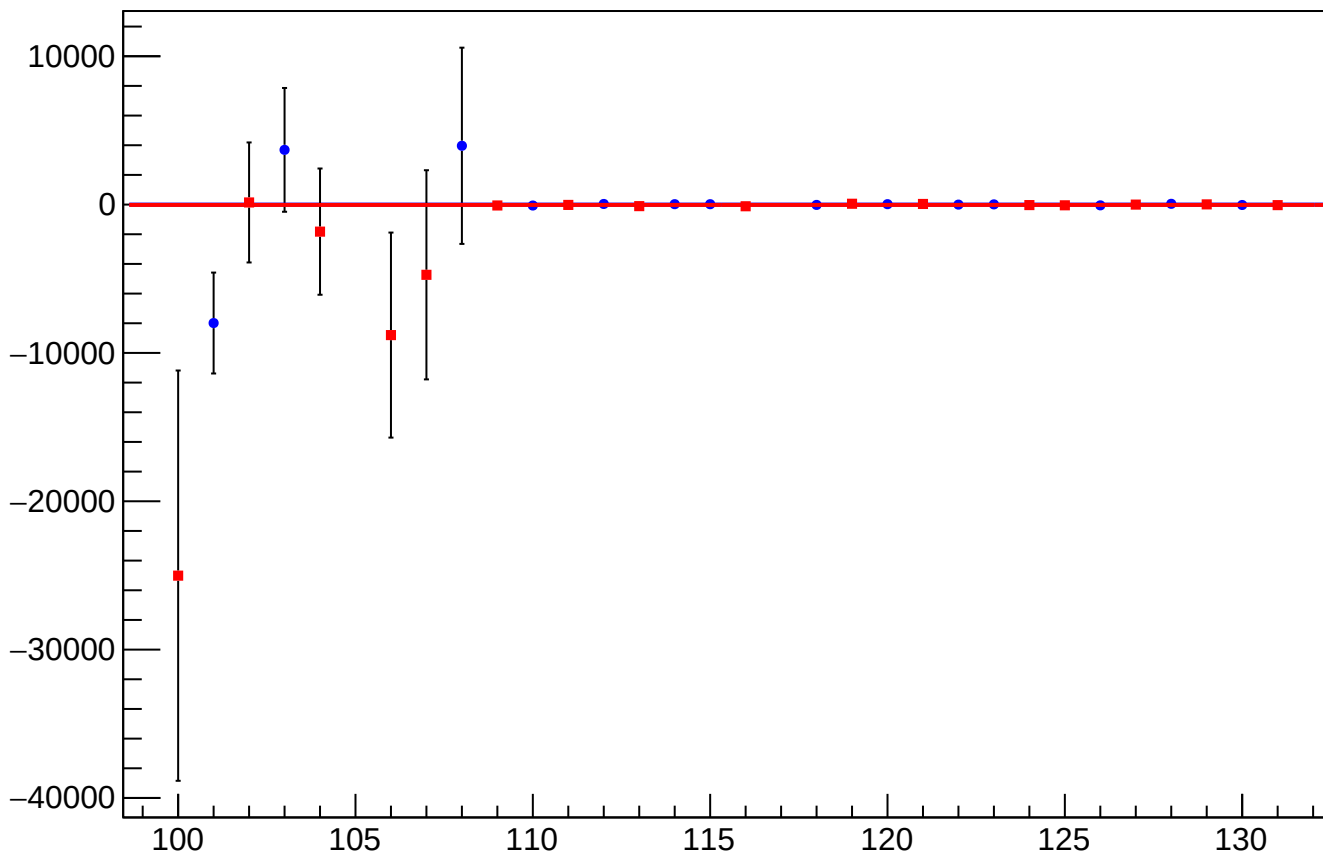
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 175.780 $\pm$ 0.047  $\chi^2$ /NDF: 7578697.6/29

- 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: -2.727 $\pm$ 14.175  $\chi^2$ /NDF: 14.3/13

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

Right Out: -22.650 $\pm$ 13.809  $\chi^2$ /NDF: 20.1/15

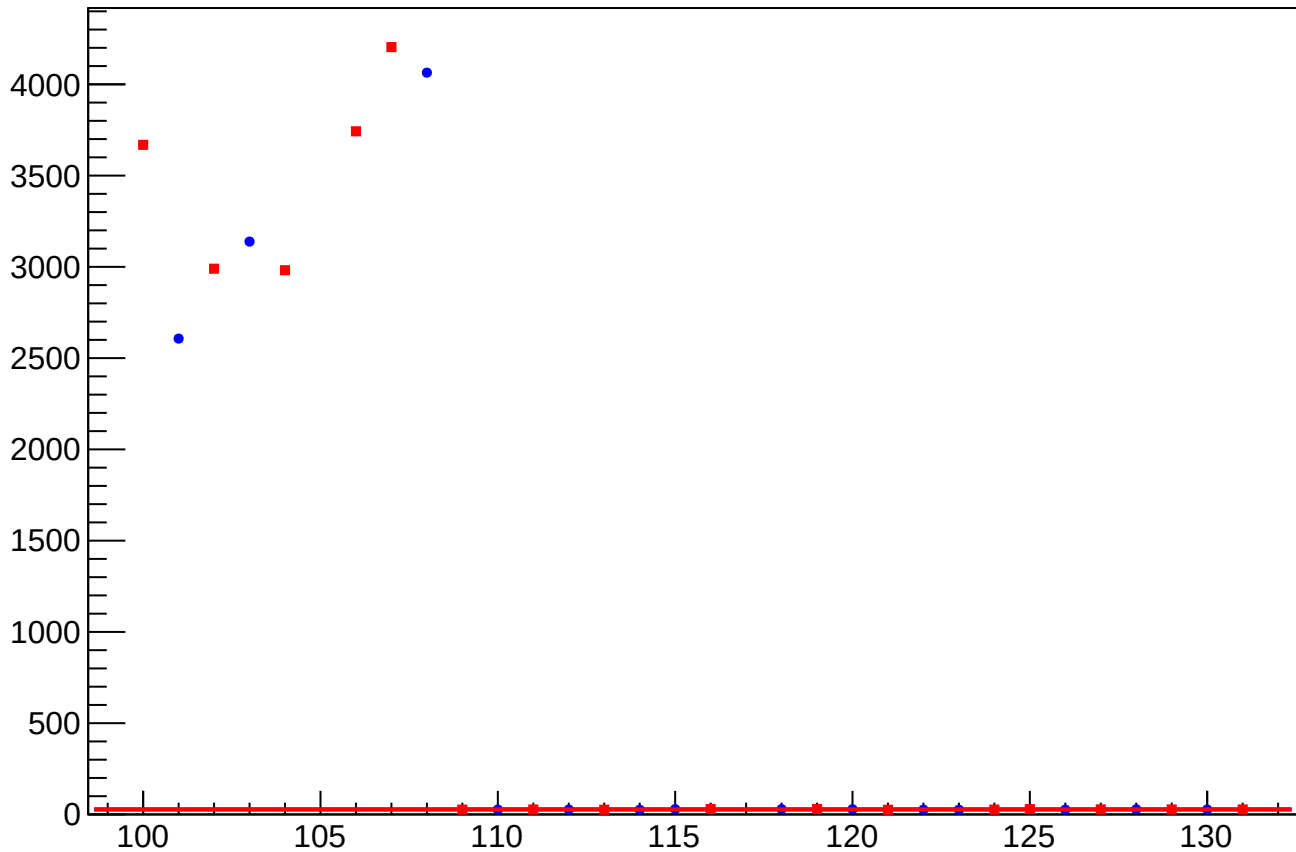
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: -12.949 $\pm$ 9.891  $\chi^2$ /NDF: 35.4/29

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

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



Right In: 27.498 $\pm$ 0.010  $\chi^2$ /NDF: 3017986.6/13

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

Right Out: 27.647 $\pm$ 0.010  $\chi^2$ /NDF: 3475575.3/15

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

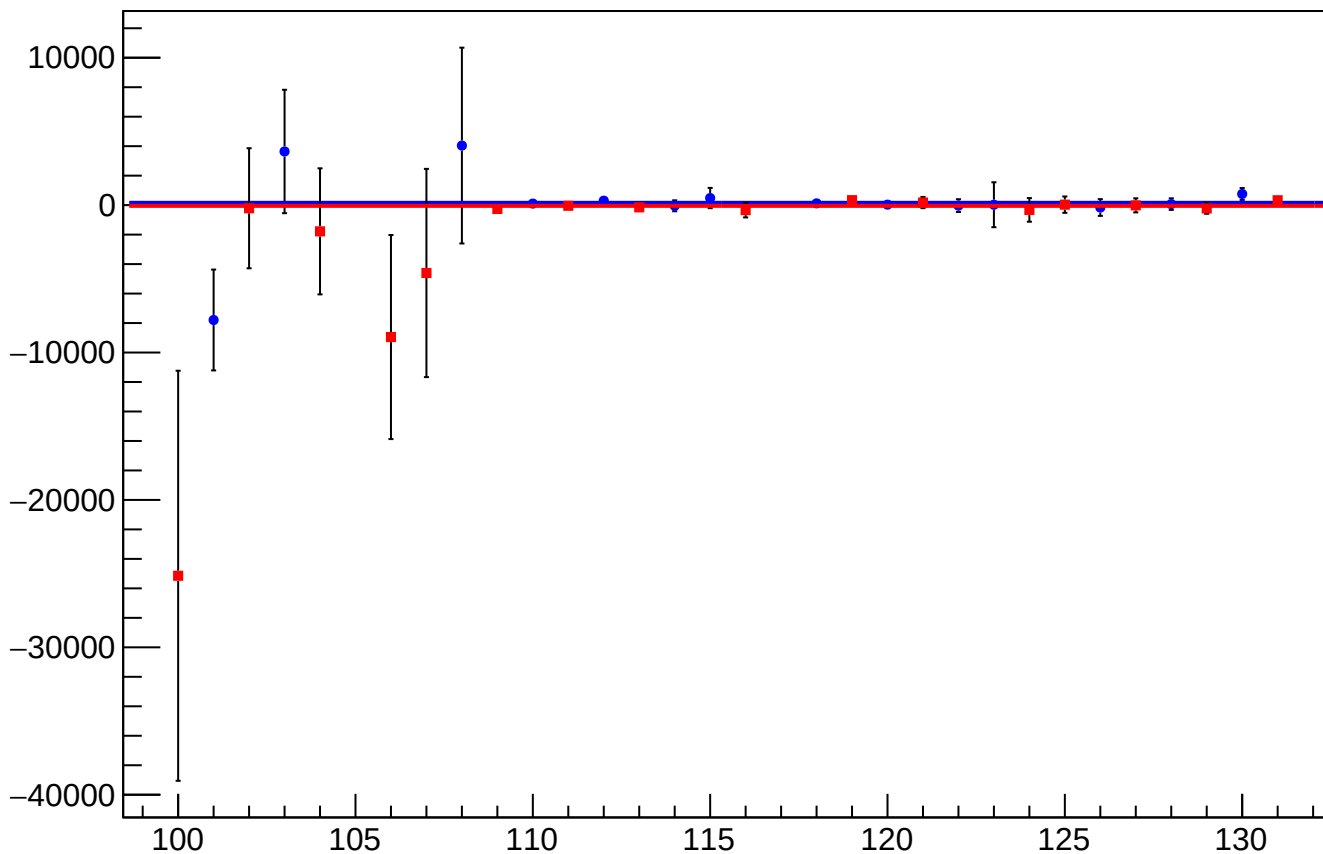
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 27.574 $\pm$ 0.007  $\chi^2$ /NDF: 6493675.0/29

- 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: 157.300+/-99.994  $\chi^2/\text{NDF}$ : 10.4/13

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

Right Out: -49.186+/-89.205  $\chi^2/\text{NDF}$ : 11.2/15

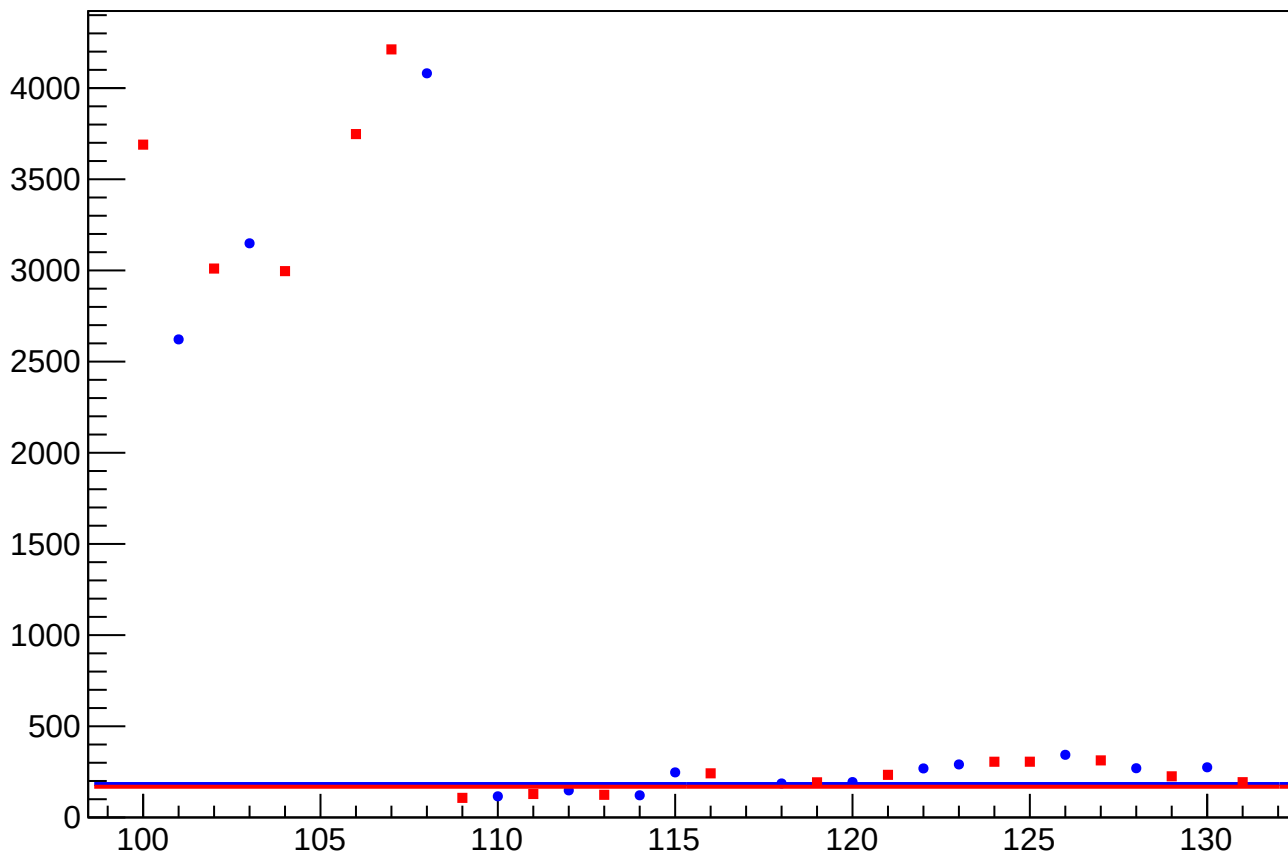
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 42.320+/-66.566  $\chi^2/\text{NDF}$ : 24.0/29

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

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_avg\_rms vs Slug



Right In: 183.323+/-0.071  $\chi^2/\text{NDF}$ : 3512014.1/13

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

Right Out: 168.412+/-0.063  $\chi^2/\text{NDF}$ : 4063317.0/15

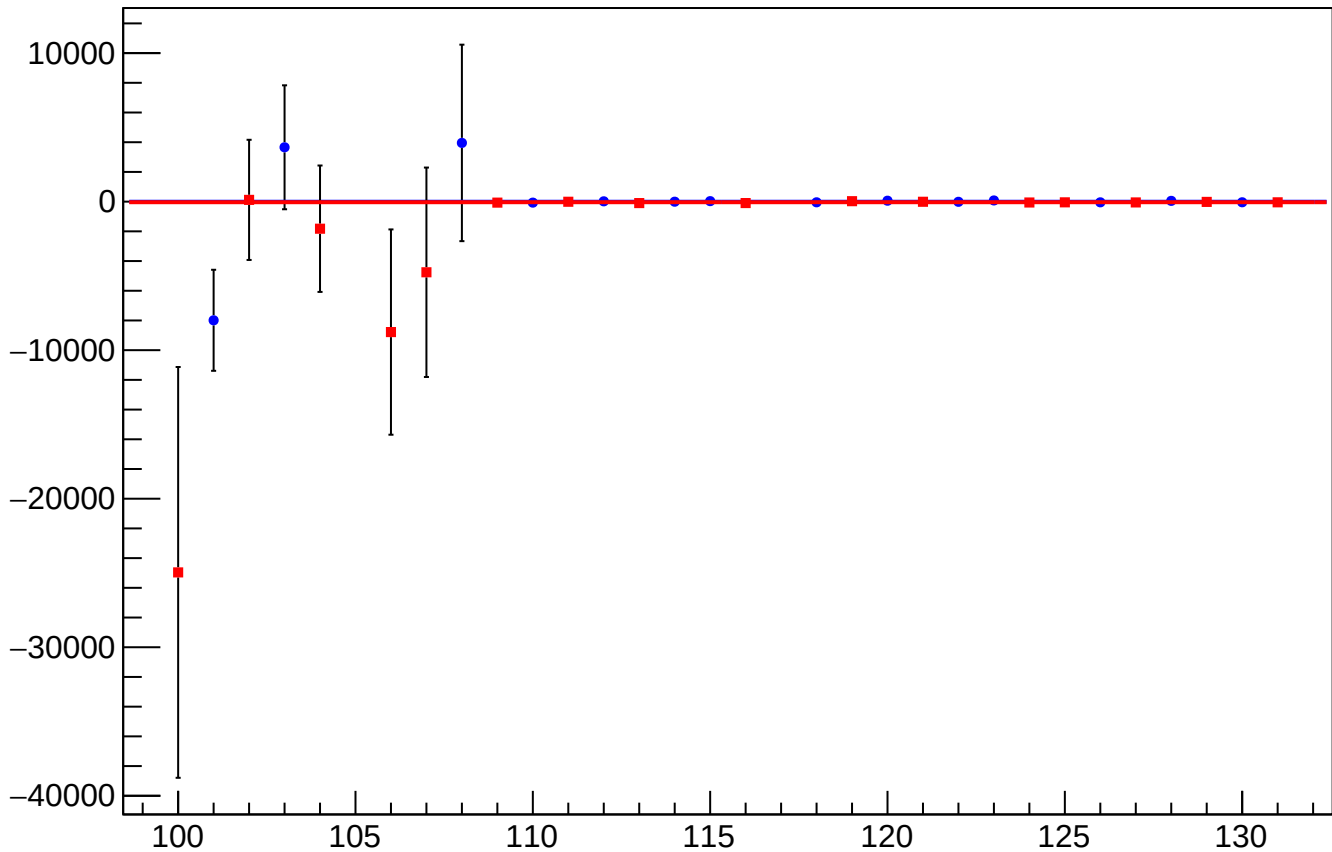
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 175.020+/-0.047  $\chi^2/\text{NDF}$ : 7600094.9/29

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

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_mean vs Slug



Right In: -8.040+/-14.277  $\chi^2/\text{NDF}$ : 16.2/13

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

Right Out: -38.354+/-13.937  $\chi^2/\text{NDF}$ : 13.0/15

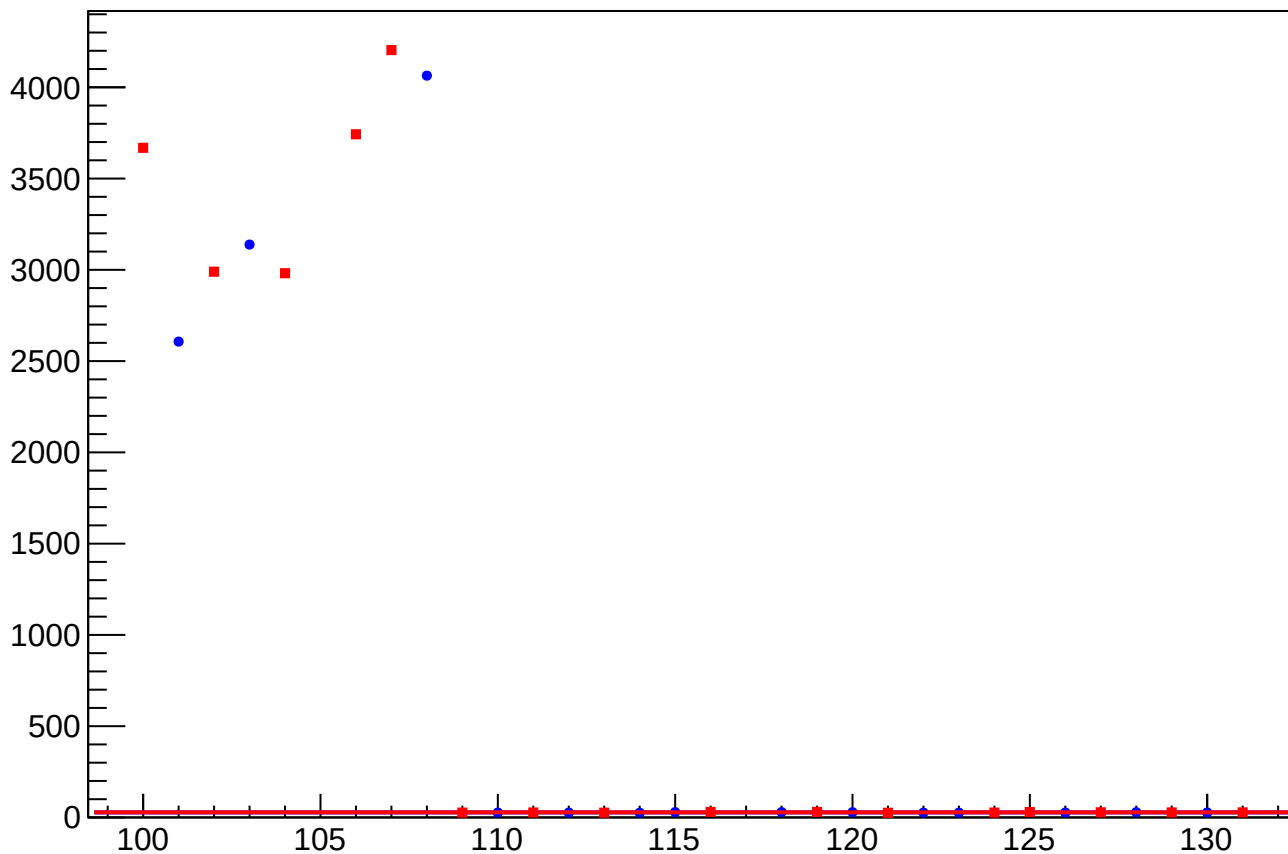
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -23.561+/-9.973  $\chi^2/\text{NDF}$ : 31.5/29

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

asym\_bcm\_cav4cQ\_bcm\_an\_ds\_agg\_dd\_rms vs Slug



Right In: 27.689+/-0.010  $\chi^2/\text{NDF}$ : 3018993.9/13

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

Right Out: 27.896+/-0.010  $\chi^2/\text{NDF}$ : 3478513.6/15

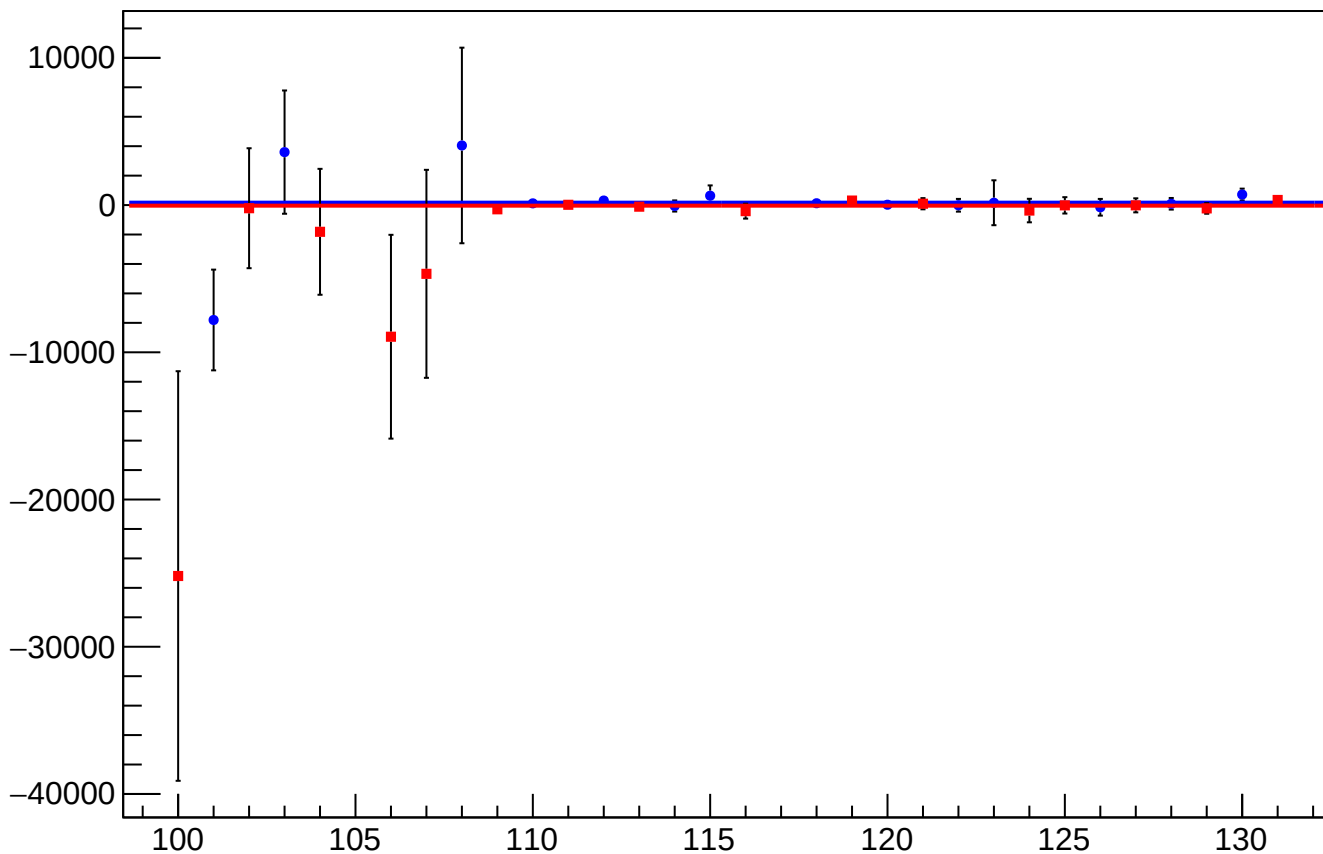
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 27.795+/-0.007  $\chi^2/\text{NDF}$ : 6497722.6/29

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

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_mean vs Slug



Right In: 164.338 $\pm$ 101.180  $\chi^2$ /NDF: 10.3/13

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

Right Out: -40.096 $\pm$ 90.401  $\chi^2$ /NDF: 11.2/15

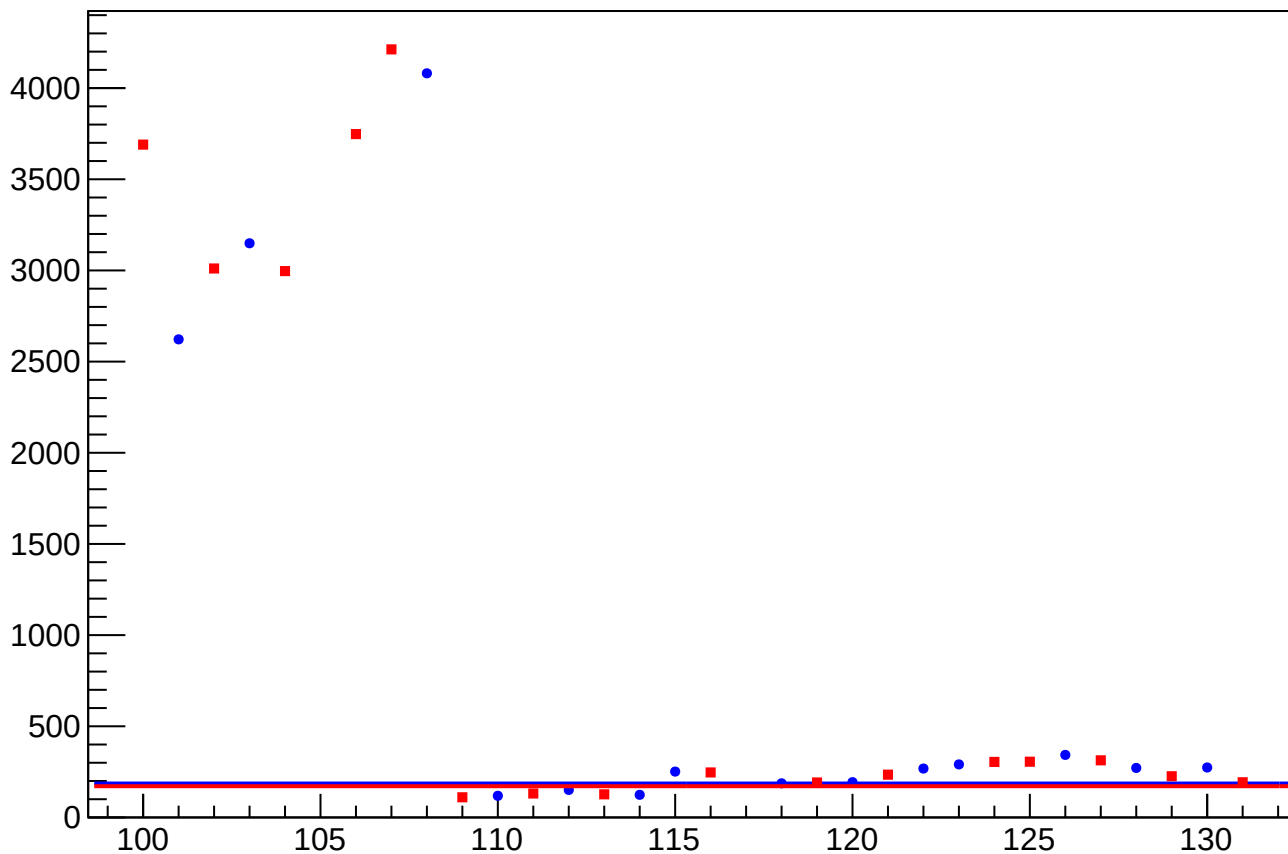
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 50.655 $\pm$ 67.413  $\chi^2$ /NDF: 23.8/29

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

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_avg\_rms vs Slug



Right In: 186.080 $\pm$ 0.072  $\chi^2$ /NDF: 3467072.0/13

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

Right Out: 171.329 $\pm$ 0.064  $\chi^2$ /NDF: 4012529.3/15

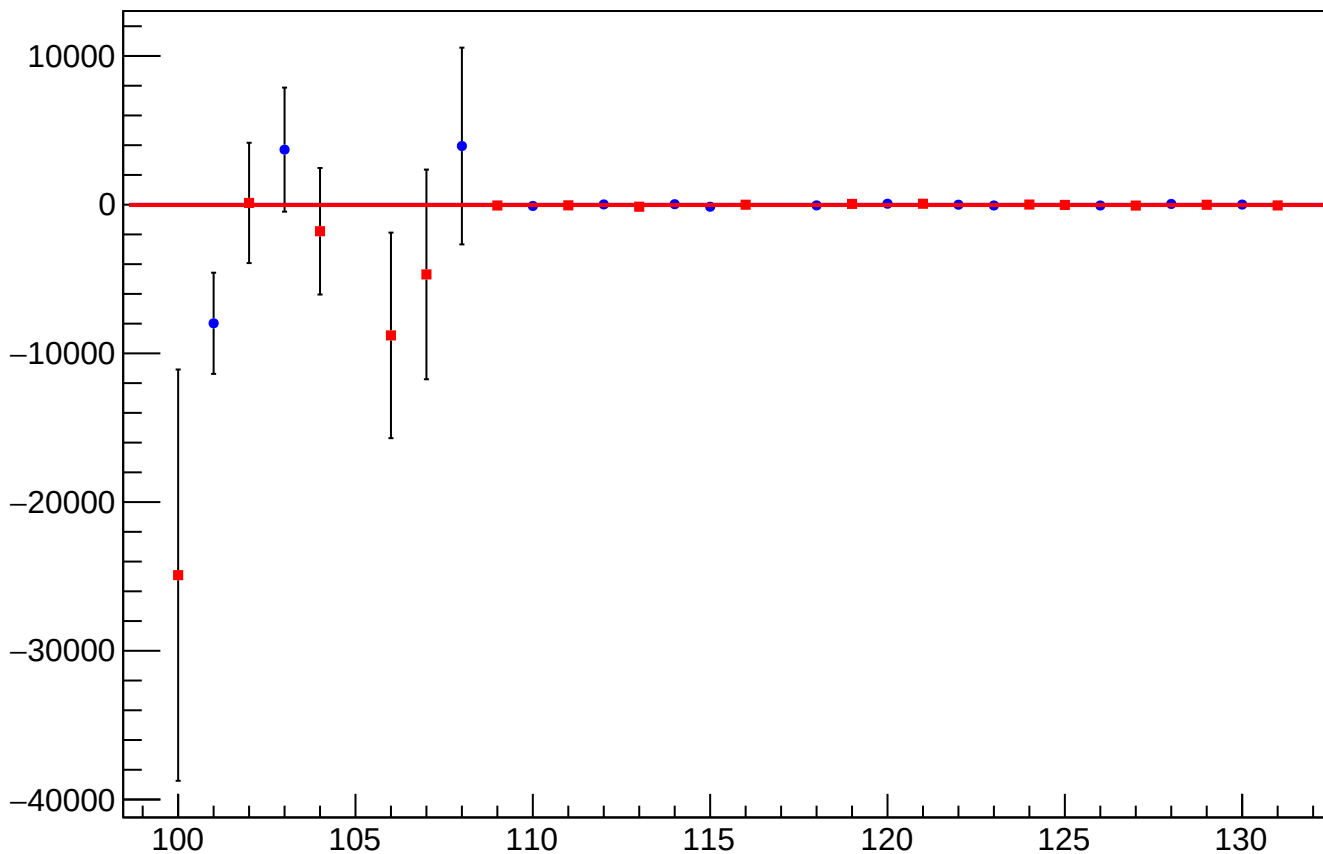
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 177.877 $\pm$ 0.048  $\chi^2$ /NDF: 7503238.6/29

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

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_mean vs Slug



Right In: -9.982+/-17.406  $\chi^2/\text{NDF}$ : 15.4/13

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

Right Out: -25.329+/-16.843  $\chi^2/\text{NDF}$ : 17.6/15

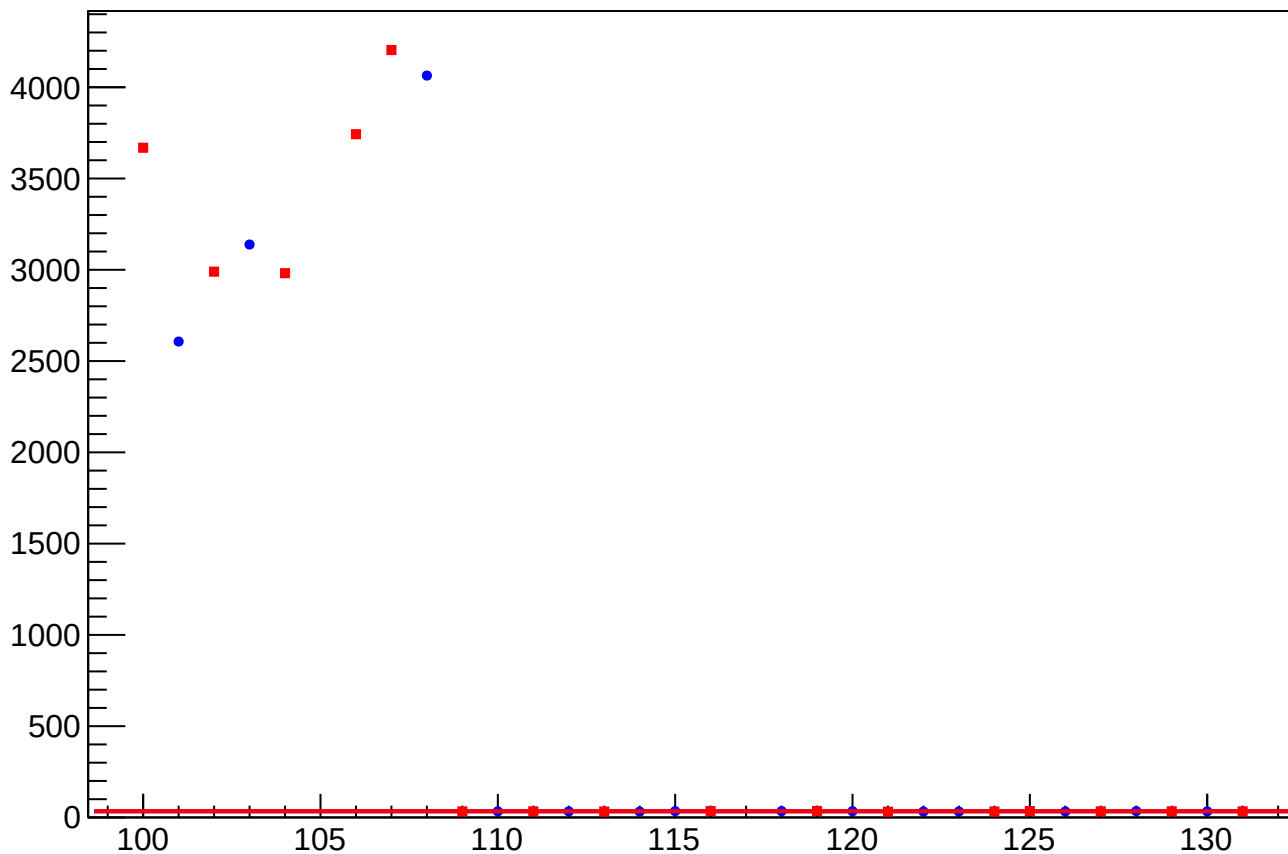
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: -17.908+/-12.104  $\chi^2/\text{NDF}$ : 33.4/29

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

asym\_bcm\_cav4cQ\_bcm\_dg\_us\_agg\_dd\_rms vs Slug



Right In: 33.788 $\pm$ 0.012  $\chi^2$ /NDF: 2999818.4/13

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

Right Out: 33.792 $\pm$ 0.012  $\chi^2$ /NDF: 3450980.5/15

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

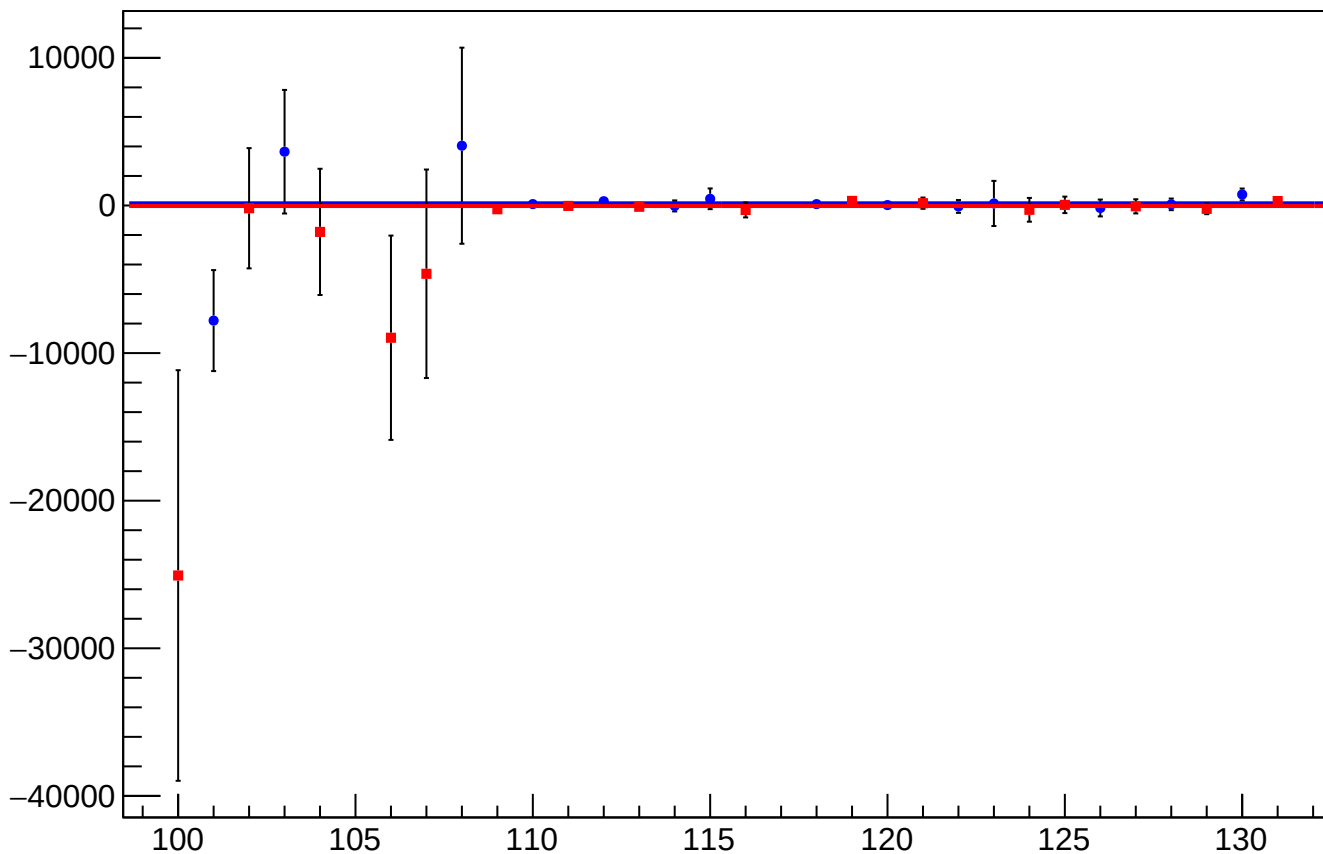
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 33.790 $\pm$ 0.009  $\chi^2$ /NDF: 6450799.0/29

- 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: 146.900 $\pm$ 100.703  $\chi^2$ /NDF: 10.3/13

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

Right Out: -37.084 $\pm$ 89.915  $\chi^2$ /NDF: 10.2/15

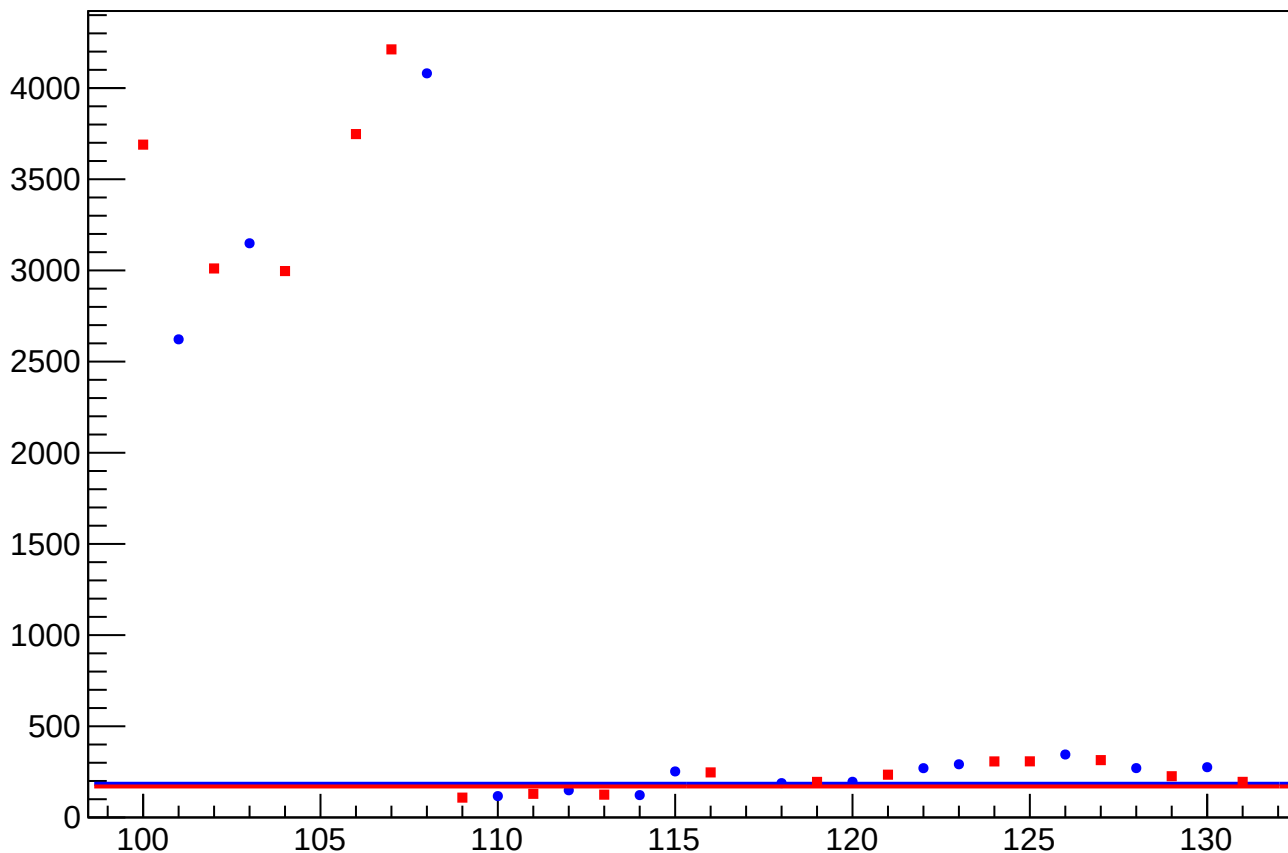
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 44.529 $\pm$ 67.071  $\chi^2$ /NDF: 22.3/29

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

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_avg\_rms vs Slug



Right In: 184.754+/-0.071  $\chi^2/\text{NDF}$ : 3503157.5/13

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

Right Out: 169.876+/-0.064  $\chi^2/\text{NDF}$ : 4057171.6/15

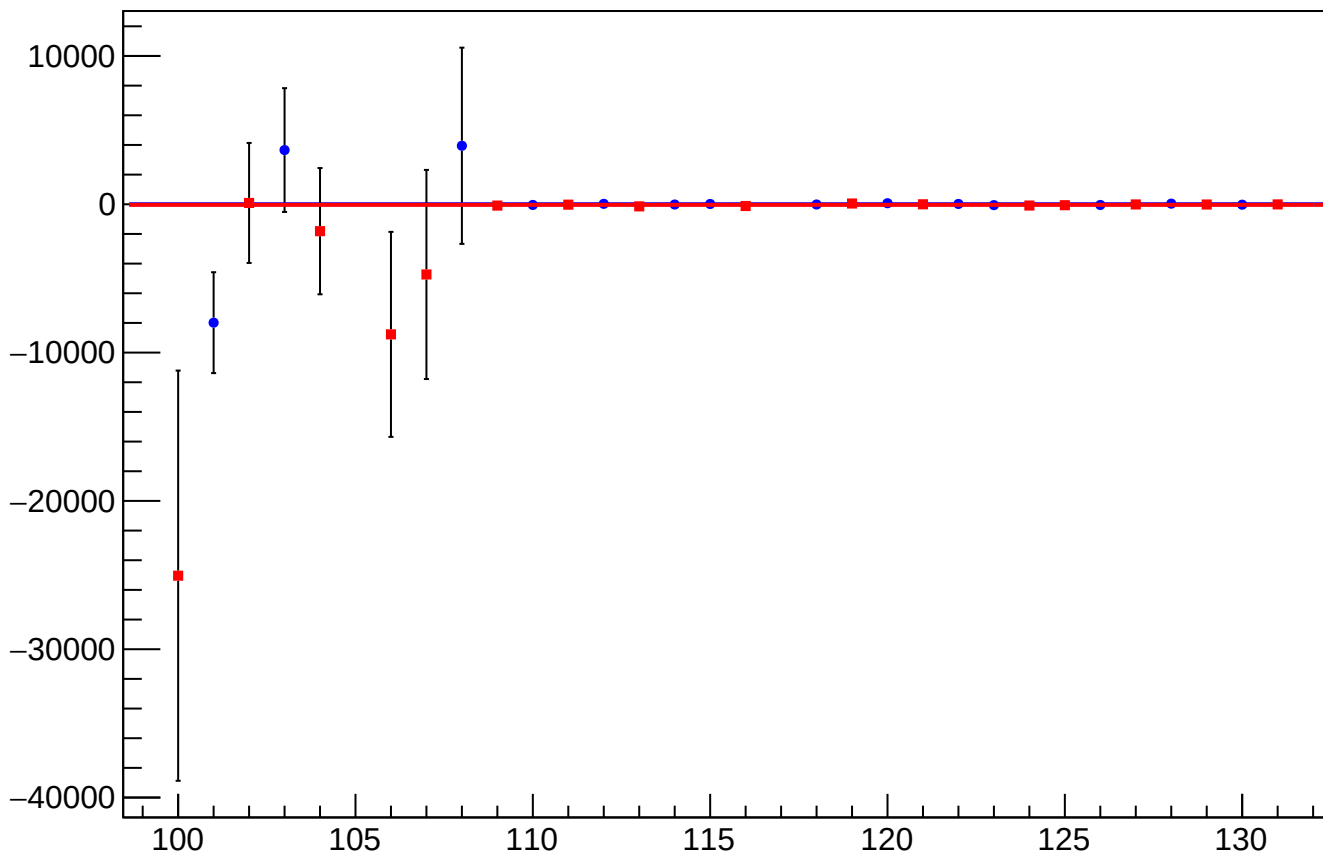
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 176.476+/-0.047  $\chi^2/\text{NDF}$ : 7584618.5/29

- 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: 2.240+/-15.860  $\chi^2$ /NDF: 12.3/13

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

Right Out: -37.277+/-15.415  $\chi^2$ /NDF: 19.1/15

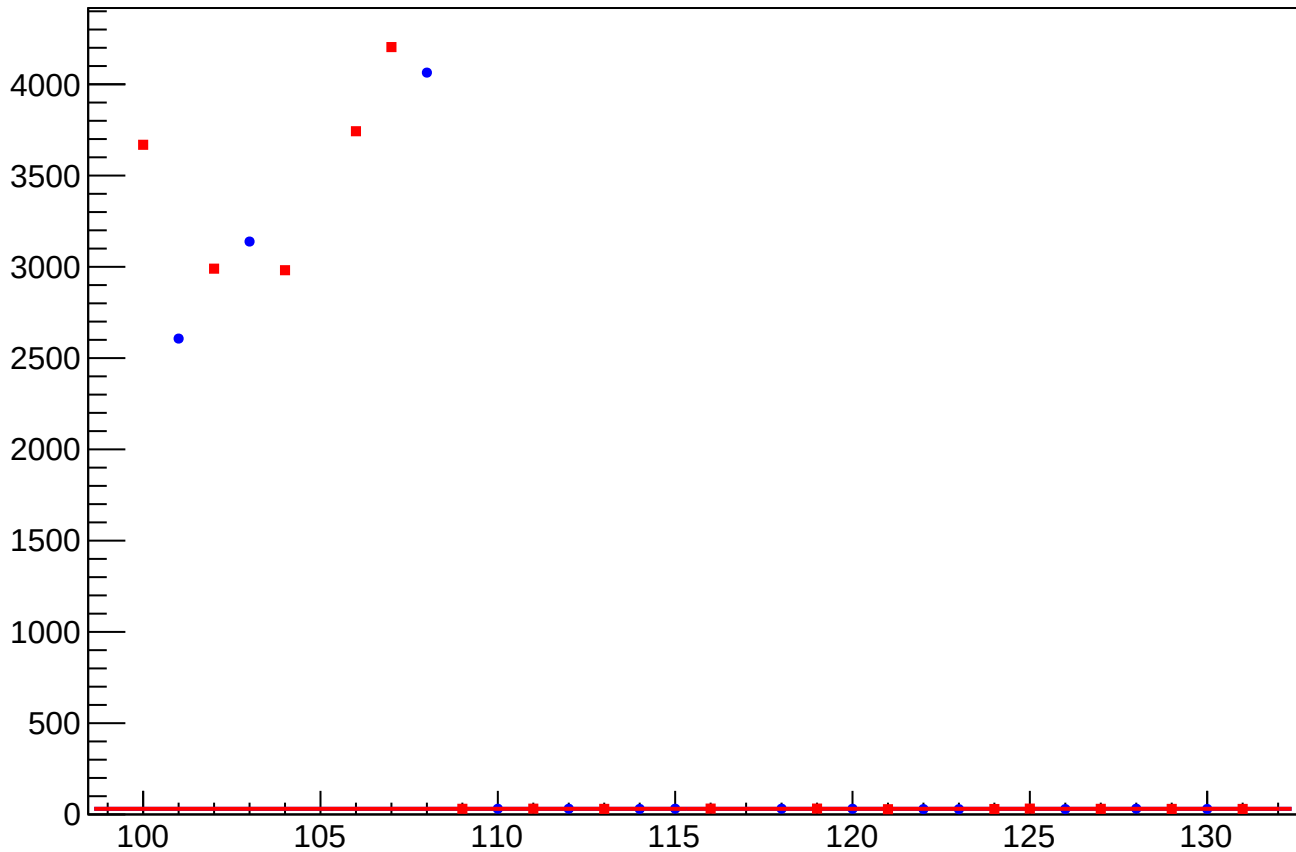
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

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

All: -18.081+/-11.054  $\chi^2$ /NDF: 34.6/29

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

asym\_bcm\_cav4cQ\_bcm\_dg\_ds\_agg\_dd\_rms vs Slug



Right In: 30.798+/-0.011  $\chi^2/\text{NDF}$ : 3007020.2/13

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

Right Out: 30.908+/-0.011  $\chi^2/\text{NDF}$ : 3457180.7/15

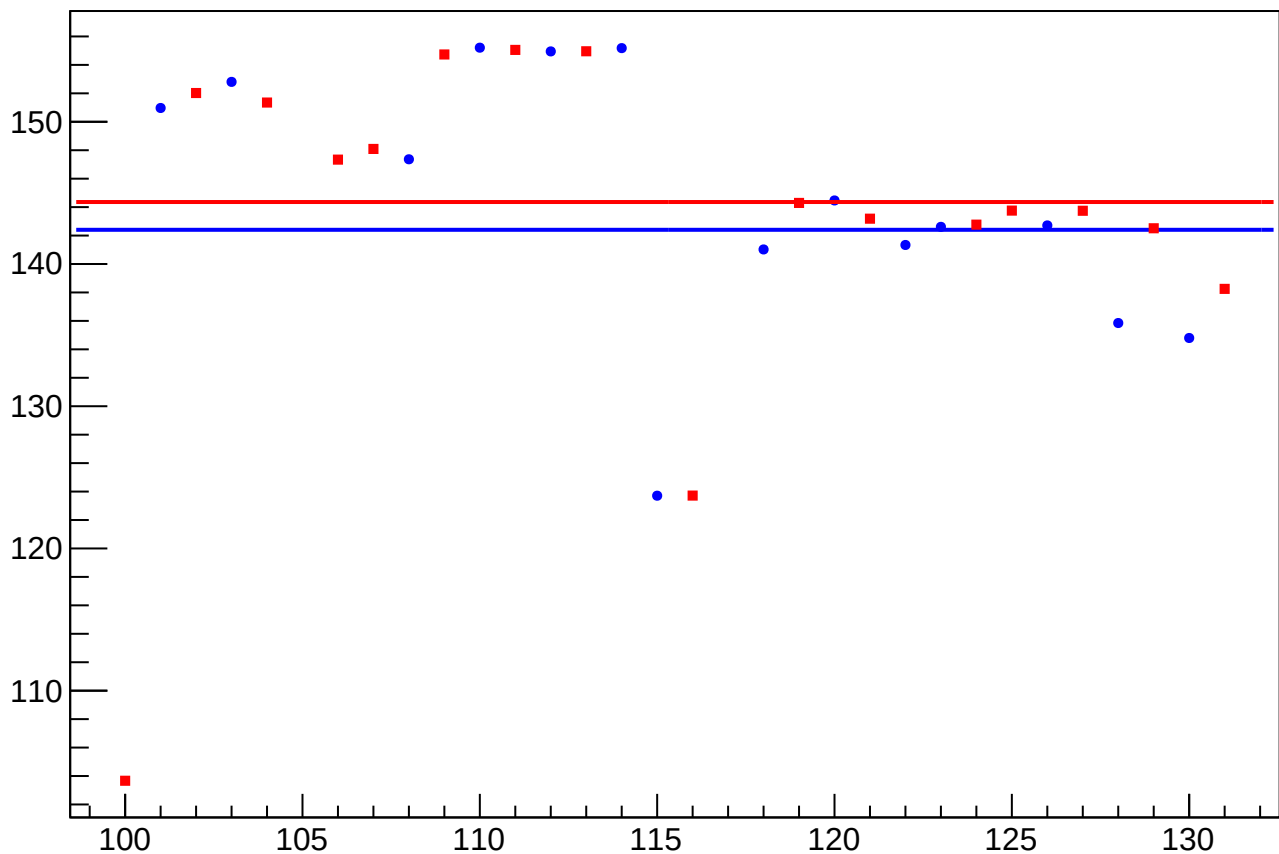
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 30.854+/-0.008  $\chi^2/\text{NDF}$ : 6464250.2/29

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

# yield\_bcm\_an\_ds\_mean vs Slug



Right In: 142.405+/-0.000  $\chi^2/\text{NDF}$ : 3043789202.8/13

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

Right Out: 144.359+/-0.000  $\chi^2/\text{NDF}$ : 4086384671.6/15

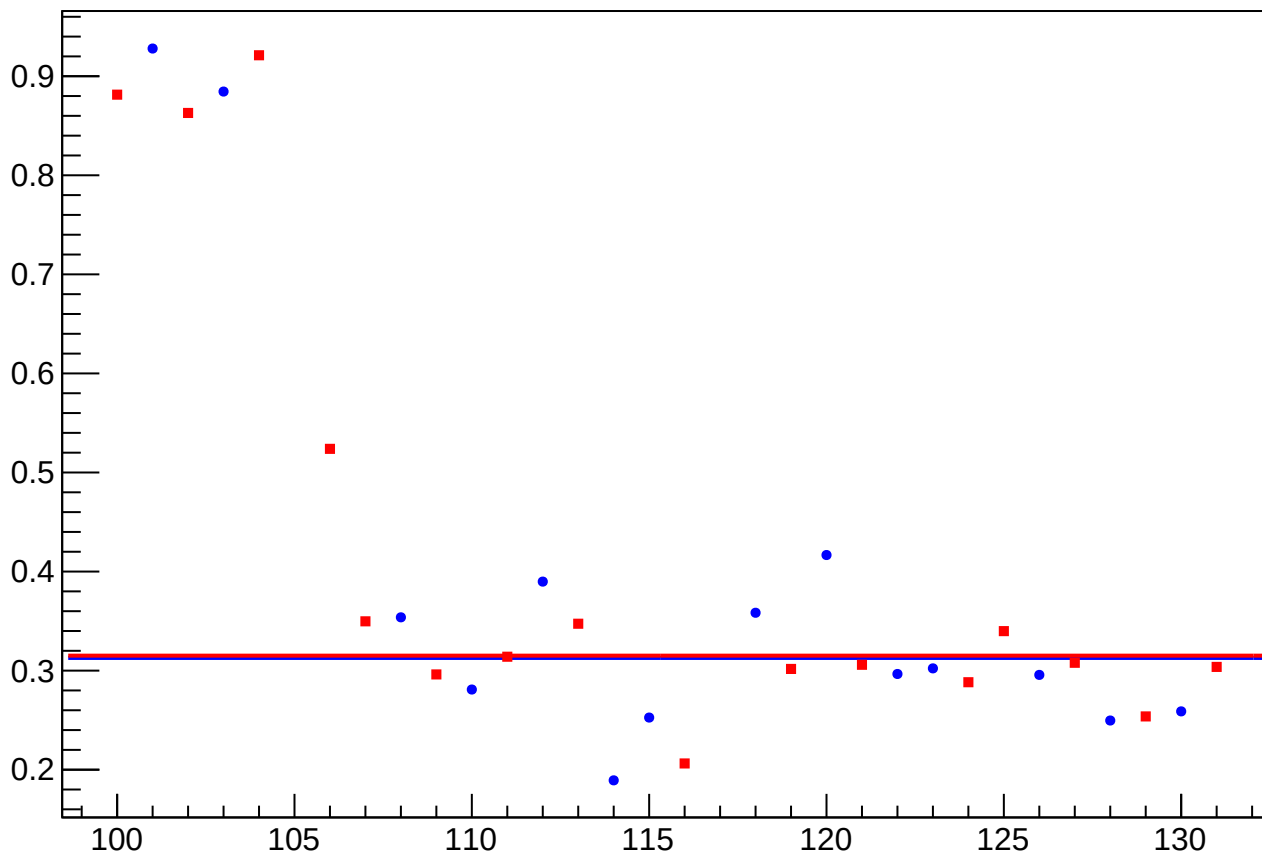
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 143.442+/-0.000  $\chi^2/\text{NDF}$ : 7217063166.3

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

# yield\_bcm\_an\_ds\_rms vs Slug



Right In: 0.313+/-0.000  $\chi^2/\text{NDF}$ : 1260452.4/13

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

Right Out: 0.315+/-0.000  $\chi^2/\text{NDF}$ : 1168813.6/15

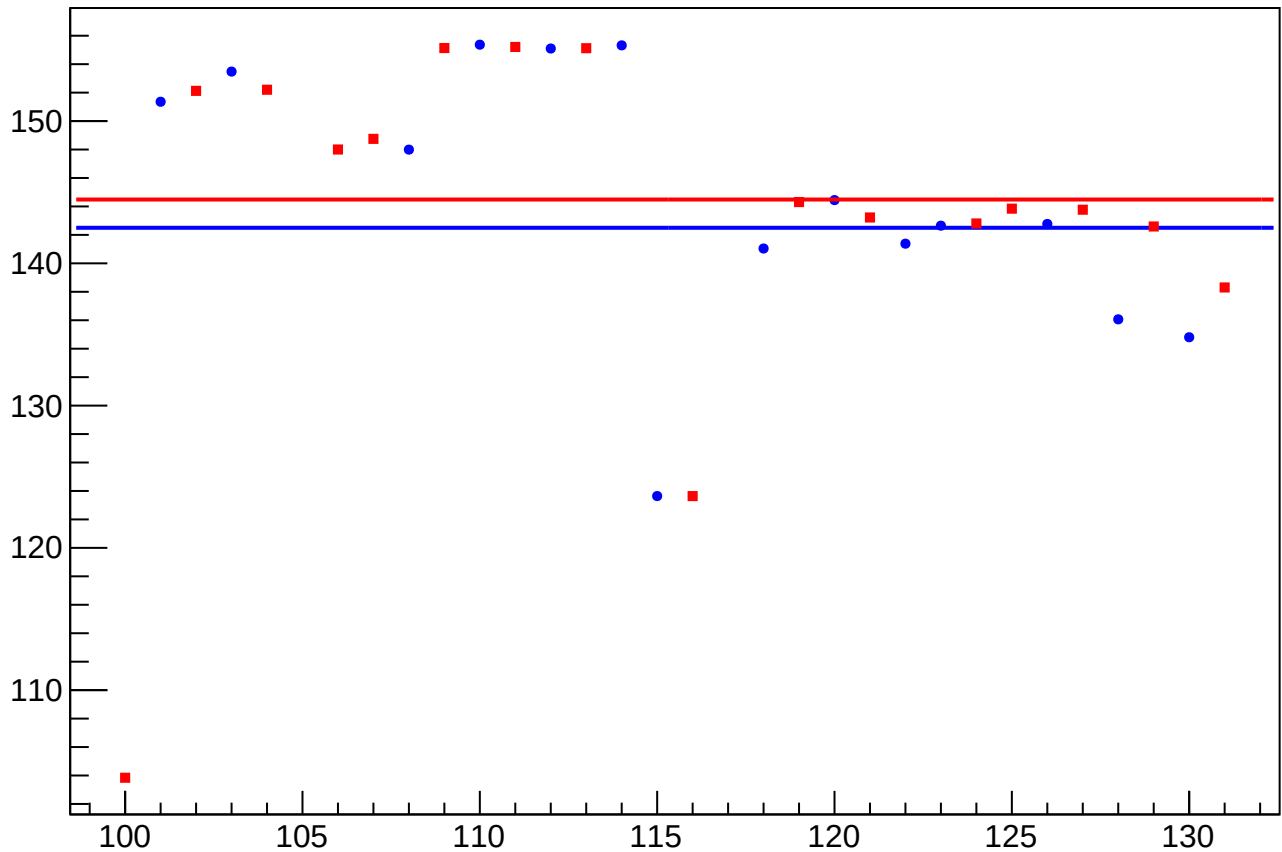
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.314+/-0.000  $\chi^2/\text{NDF}$ : 2429510.2/29

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

# yield\_bcm\_an\_ds3\_mean vs Slug



Right In: 142.499+/-0.000  $\chi^2/\text{NDF}$ : 3051616478.4/13

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

Right Out: 144.486+/-0.000  $\chi^2/\text{NDF}$ : 4107171939.2/15

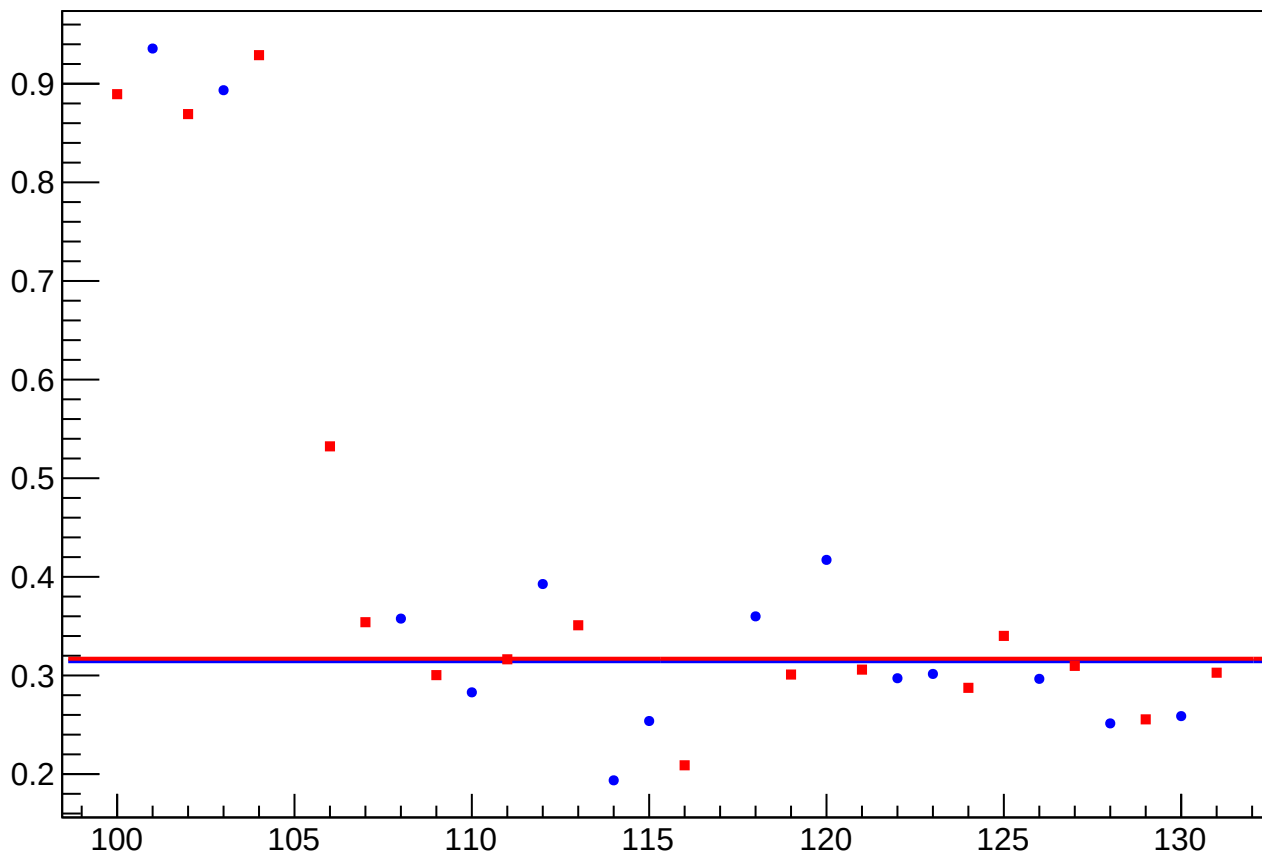
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 143.554+/-0.000  $\chi^2/\text{NDF}$ : 7247684963.2

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

# yield\_bcm\_an\_ds3\_rms vs Slug



Right In: 0.314+/-0.000  $\chi^2/\text{NDF}$ : 1261218.1/13

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

Right Out: 0.317+/-0.000  $\chi^2/\text{NDF}$ : 1170815.8/15

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

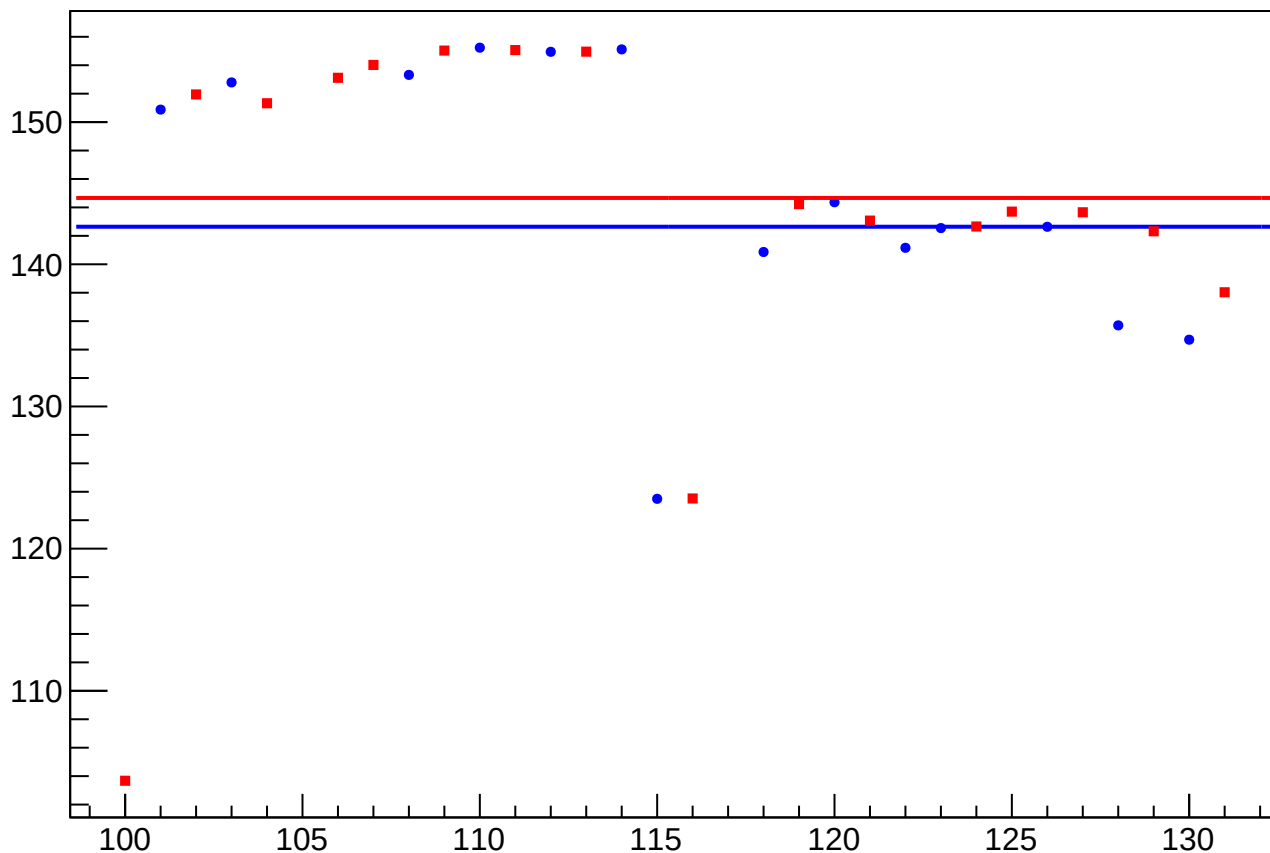
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.316+/-0.000  $\chi^2/\text{NDF}$ : 2432321.4/29

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



# yield\_bcm\_an\_us\_mean vs Slug



Right In: 142.642 $\pm$ 0.000  $\chi^2$ /NDF: 3314127342.6/13

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

Right Out: 144.666 $\pm$ 0.000  $\chi^2$ /NDF: 4383759346.7/15

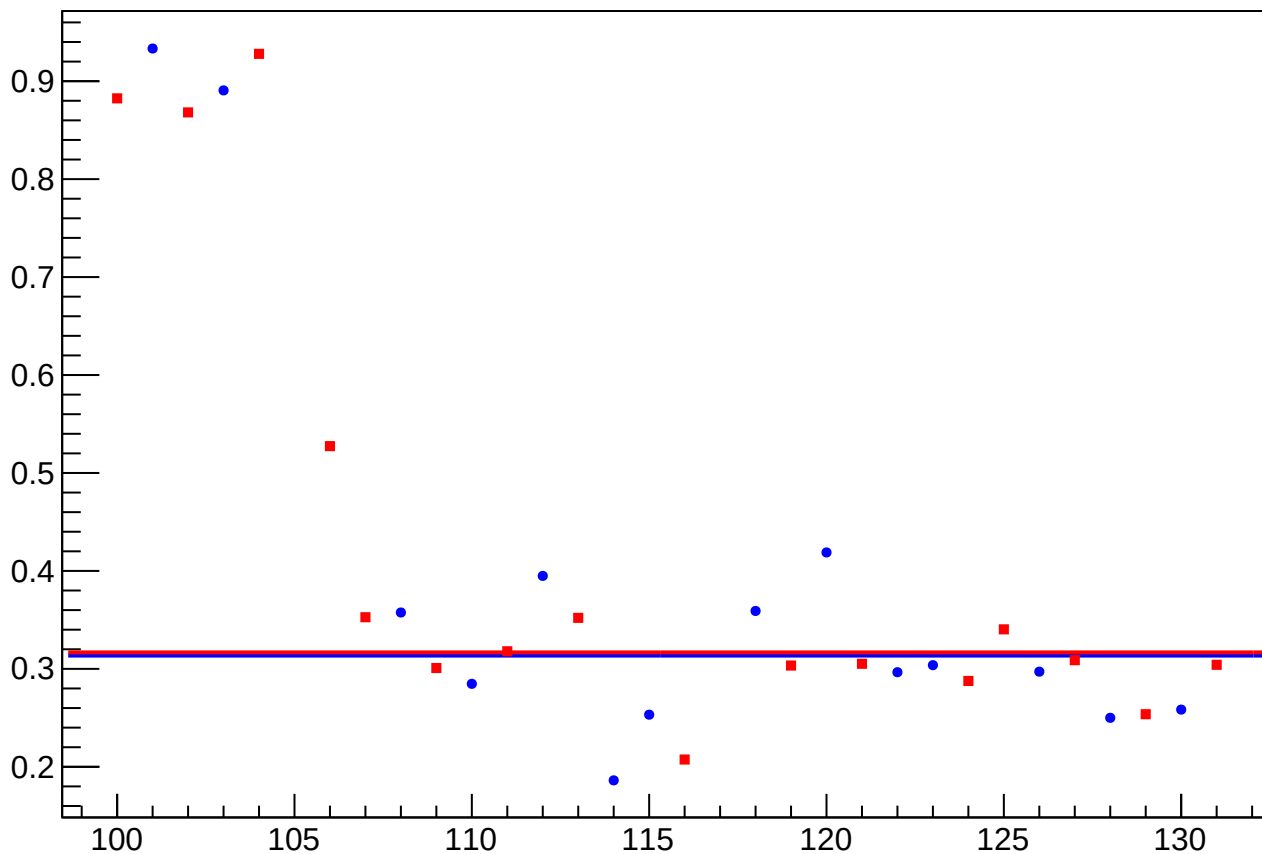
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 143.715 $\pm$ 0.000  $\chi^2$ /NDF: 7790361837.5

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

# yield\_bcm\_an\_us\_rms vs Slug



Right In: 0.314+/-0.000  $\chi^2/\text{NDF}$ : 1275606.4/13

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

Right Out: 0.317+/-0.000  $\chi^2/\text{NDF}$ : 1174002.6/15

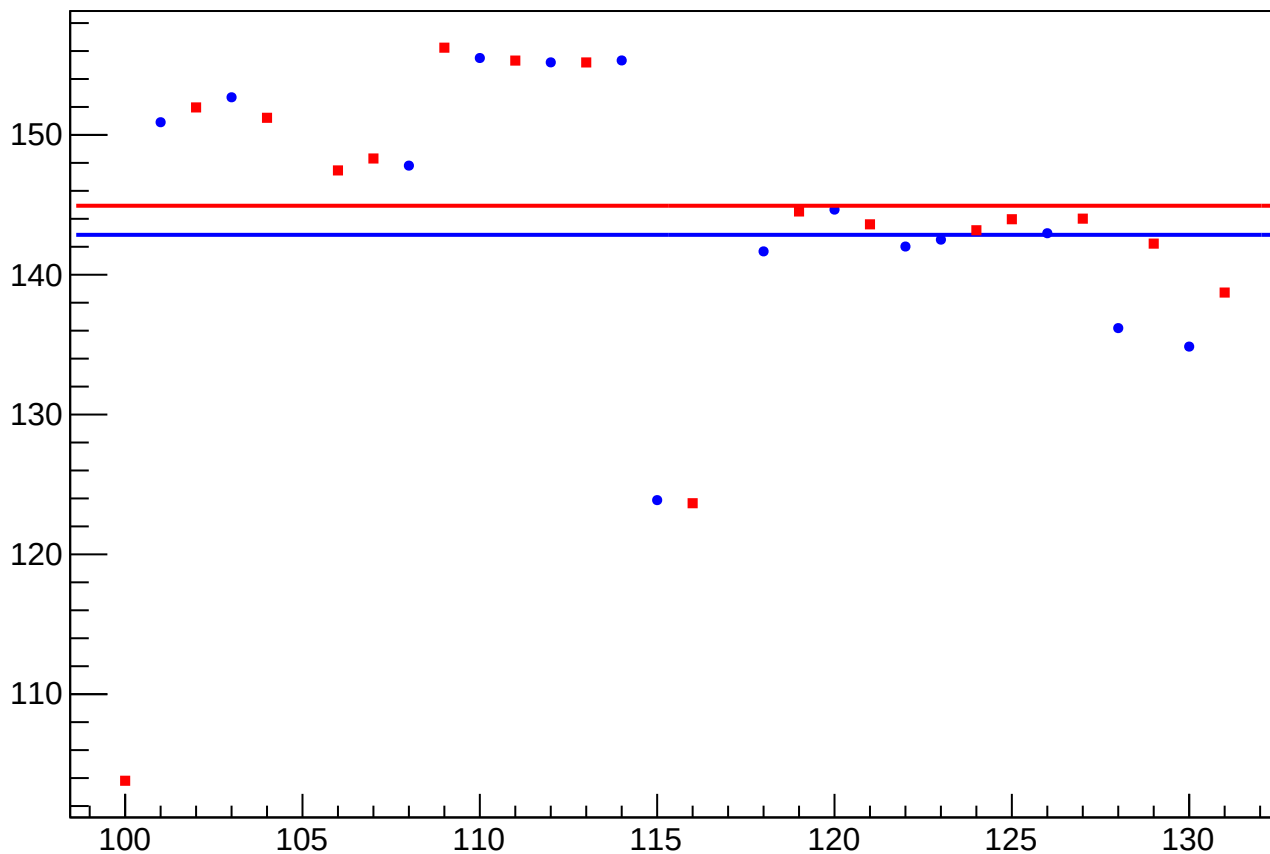
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.315+/-0.000  $\chi^2/\text{NDF}$ : 2450084.2/29

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

# yield\_bcm\_dg\_us\_mean vs Slug



Right In: 142.854+/-0.000  $\chi^2/\text{NDF}$ : 2839157440.4/13

+ 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

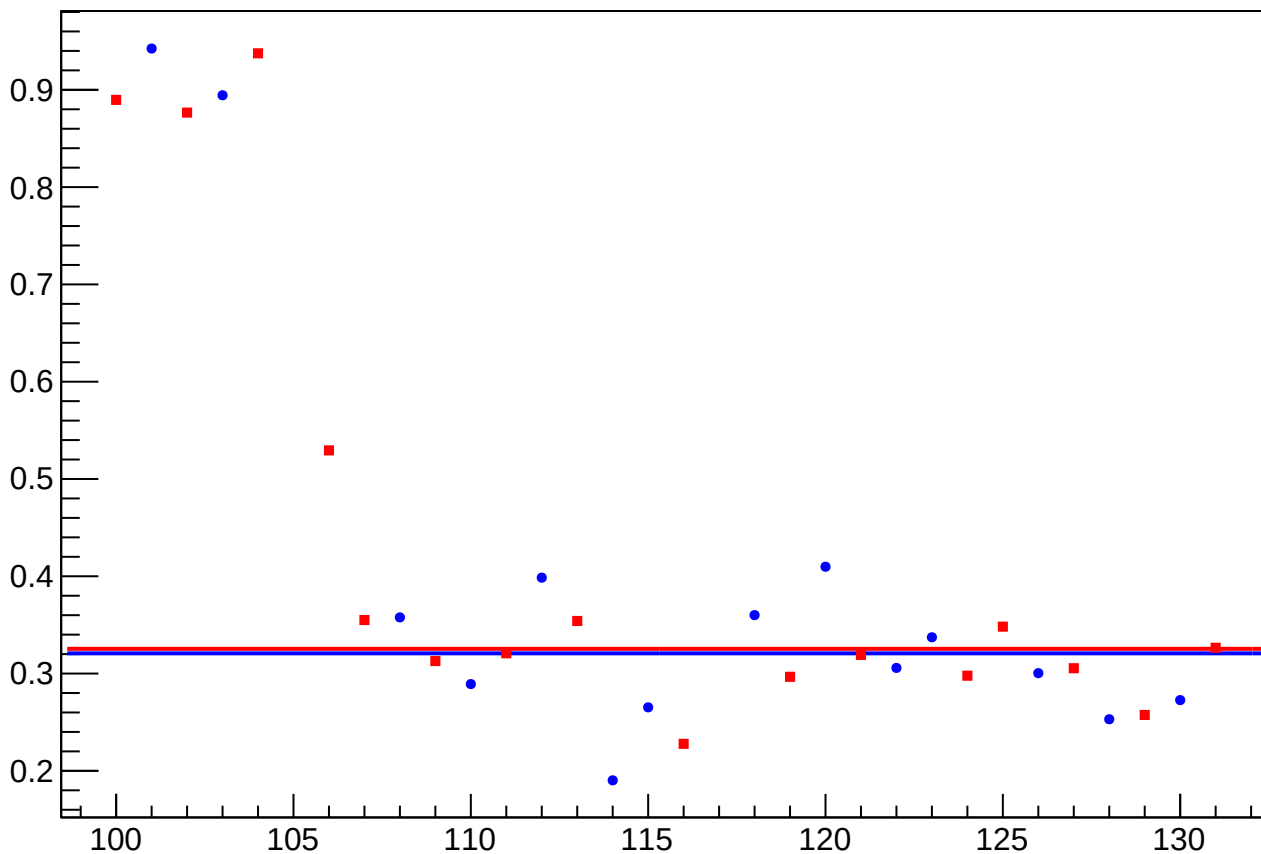
Right Out: 144.935+/-0.000  $\chi^2/\text{NDF}$ : 3763823743.6/15

All: 143.953+/-0.000  $\chi^2/\text{NDF}$ : 6696388353.8

- 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\_us\_rms vs Slug



Right In: 0.321+/-0.000  $\chi^2/\text{NDF}$ : 1231219.6/13

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

Right Out: 0.325+/-0.000  $\chi^2/\text{NDF}$ : 1117273.8/15

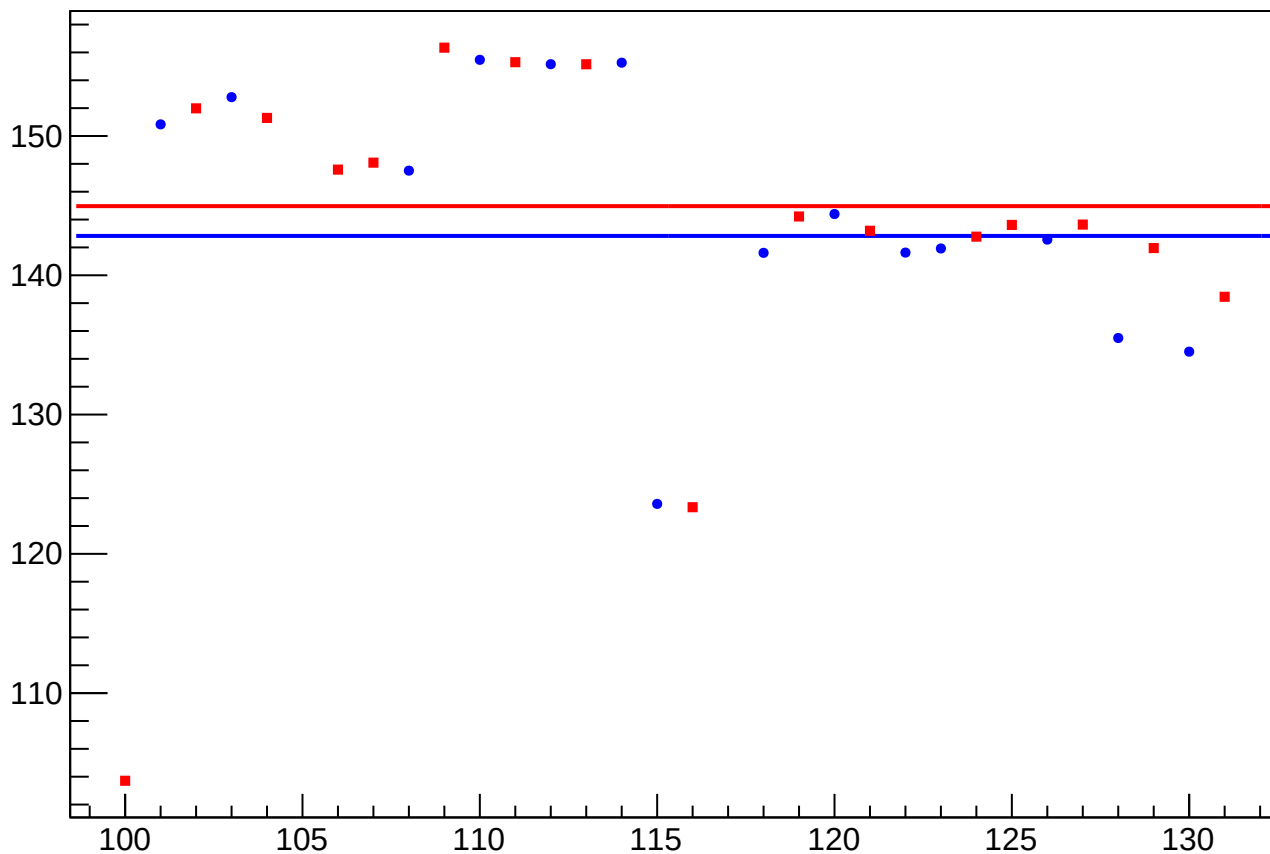
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.323+/-0.000  $\chi^2/\text{NDF}$ : 2349424.9/29

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

# yield\_bcm\_dg\_ds\_mean vs Slug



Right In: 142.825+/-0.000  $\chi^2/\text{NDF}$ : 2973320977.3/13

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

Right Out: 144.963+/-0.000  $\chi^2/\text{NDF}$ : 3840130662.2/15

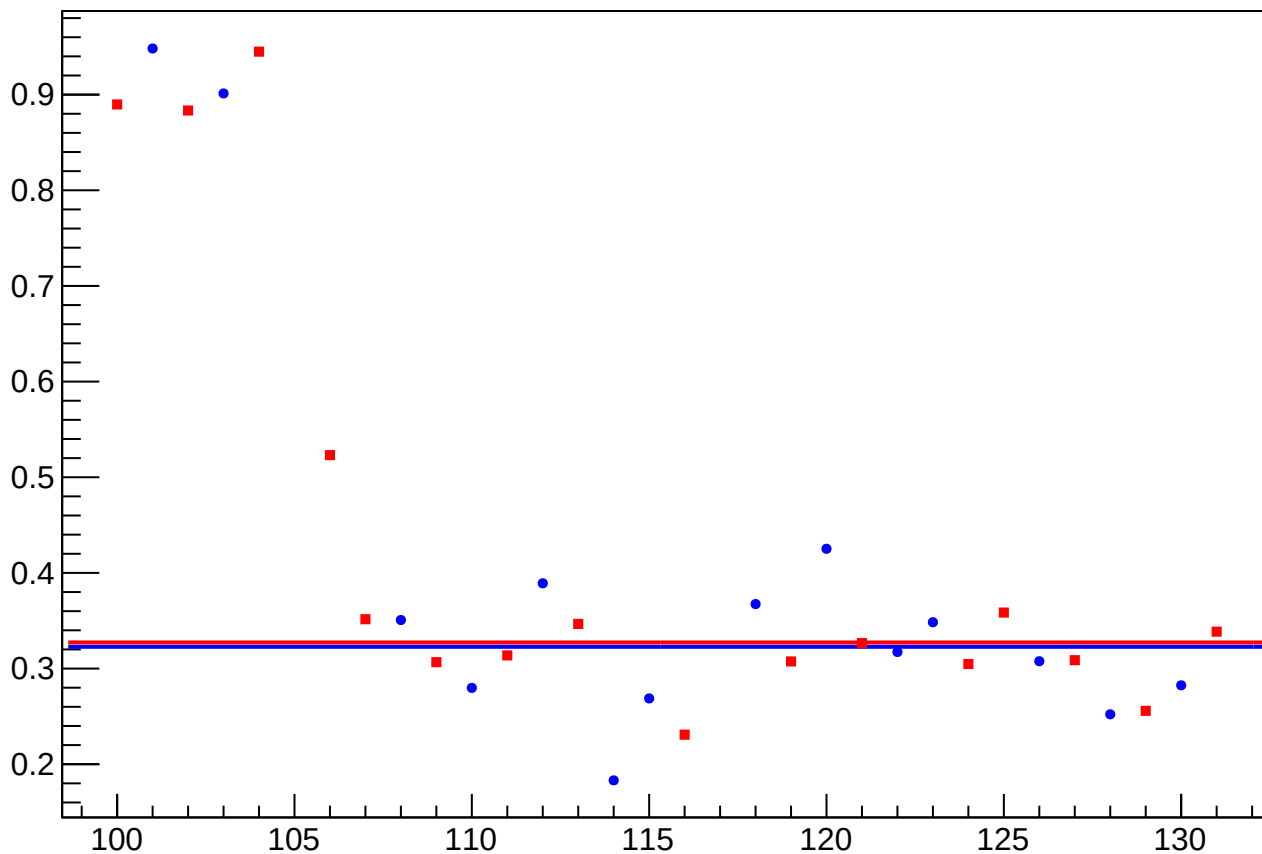
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 143.956+/-0.000  $\chi^2/\text{NDF}$ : 6910755272.7

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

# yield\_bcm\_dg\_ds\_rms vs Slug



Right In: 0.323+/-0.000  $\chi^2/\text{NDF}$ : 1245322.1/13

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

Right Out: 0.327+/-0.000  $\chi^2/\text{NDF}$ : 1111753.9/15

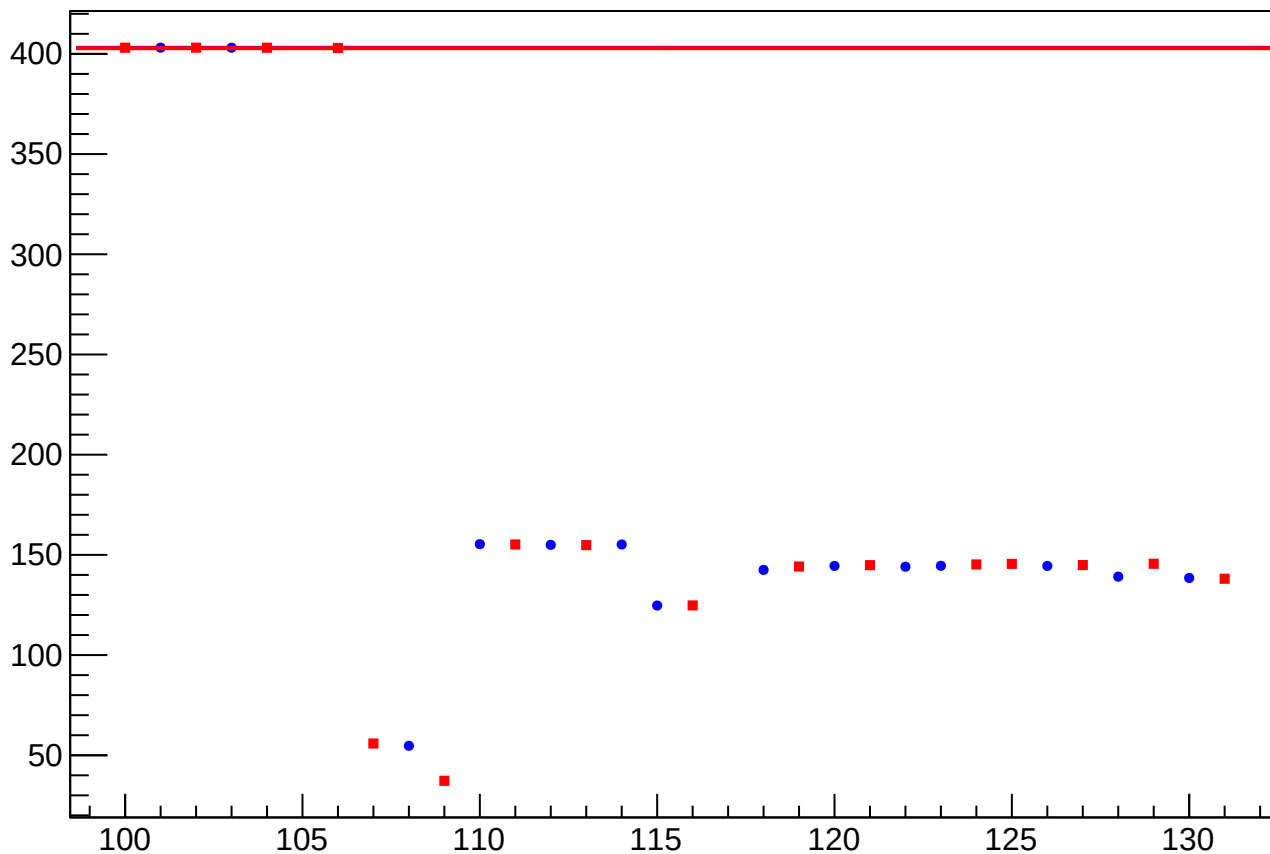
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.325+/-0.000  $\chi^2/\text{NDF}$ : 2357956.9/29

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

# yield\_cav4bQ\_mean vs Slug



Right In: 403.014+/-0.000  $\chi^2/\text{NDF}$ : 647470966963.2/13

+ 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

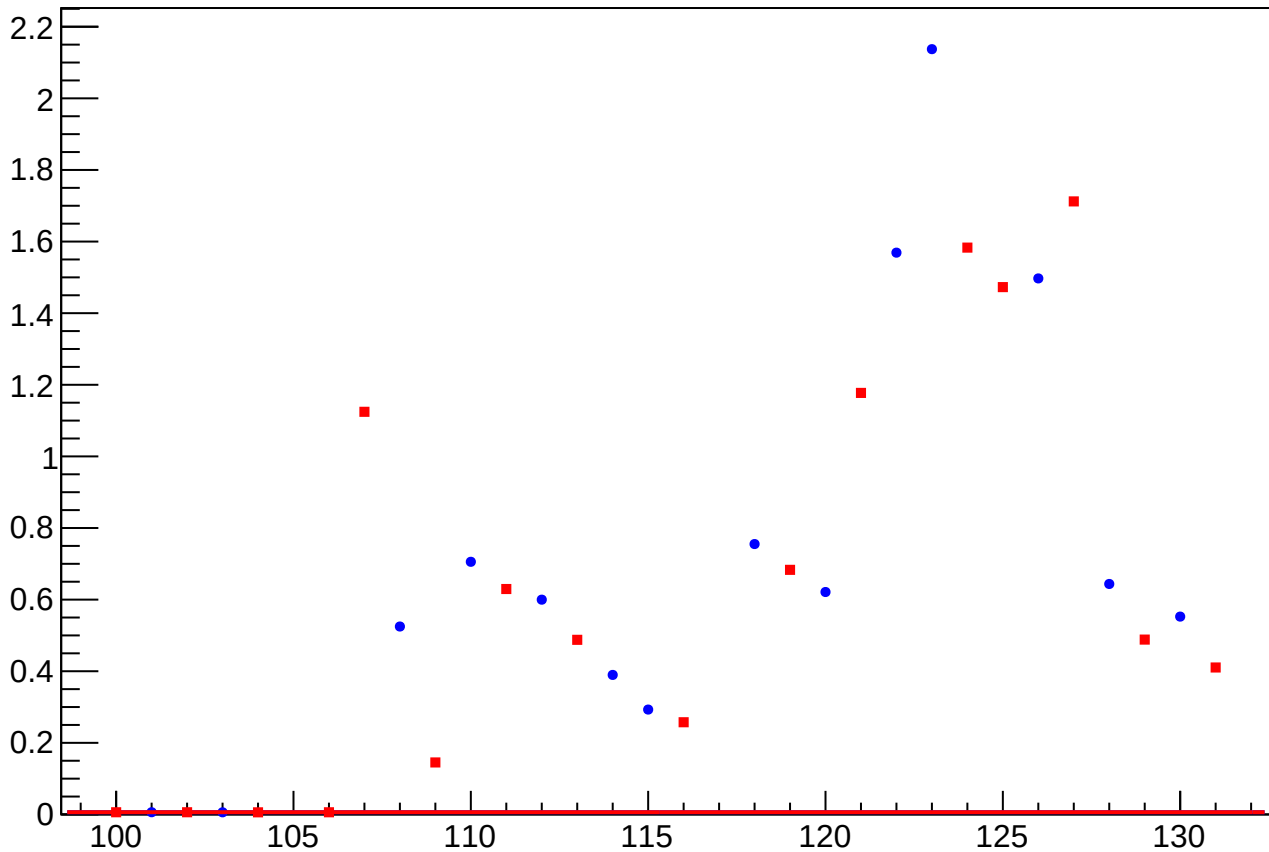
All: 402.915+/-0.000  $\chi^2/\text{NDF}$ : 34782825205

Right Out: 402.829+/-0.000  $\chi^2/\text{NDF}$ : 2830245954730.9/15

- 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\_cav4bQ\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 6520929.3/13

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

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 7166561.9/15

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

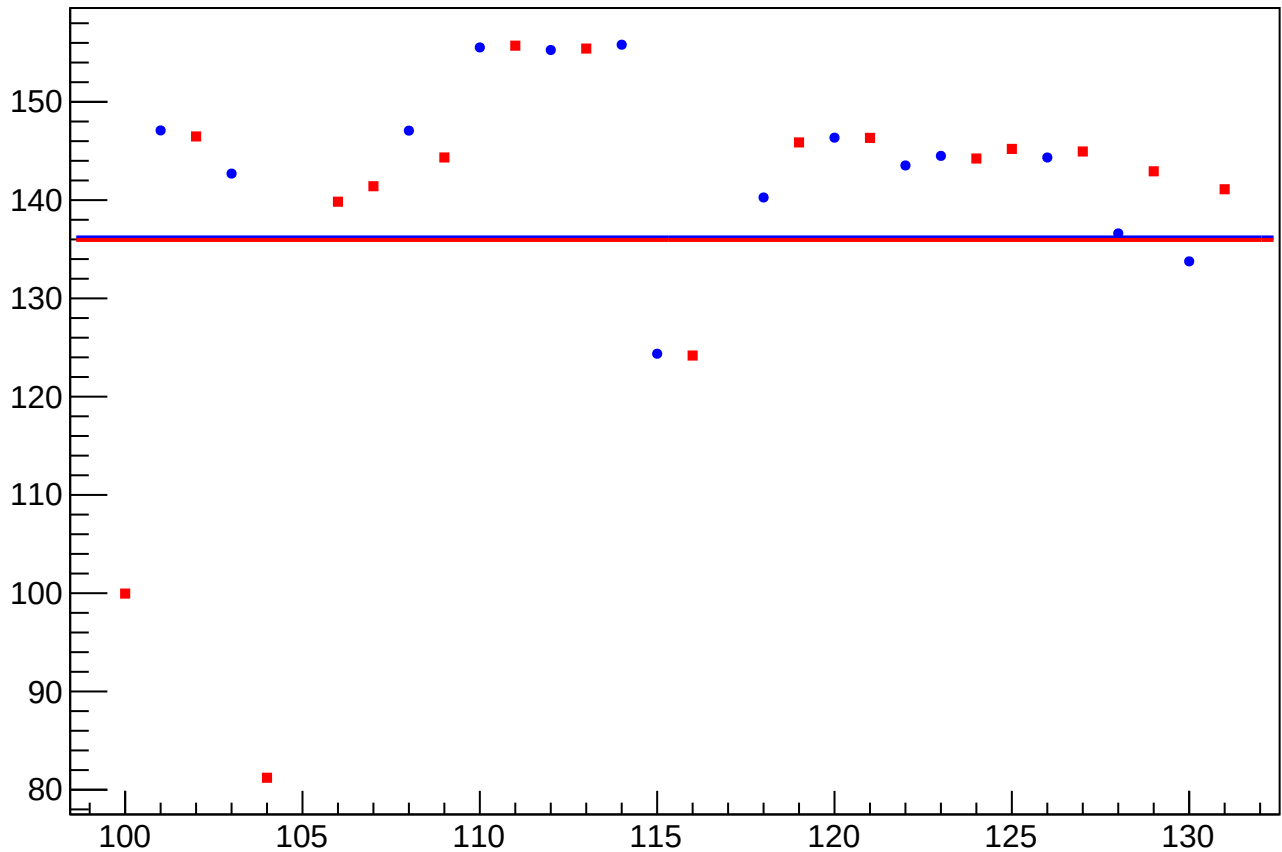
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 13687515.1/29

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



# yield\_cav4cQ\_mean vs Slug



Right In: 136.201 $\pm$ 0.000  $\chi^2$ /NDF: 520737120.1/13

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

Right Out: 135.951 $\pm$ 0.000  $\chi^2$ /NDF: 1151798548.4/15

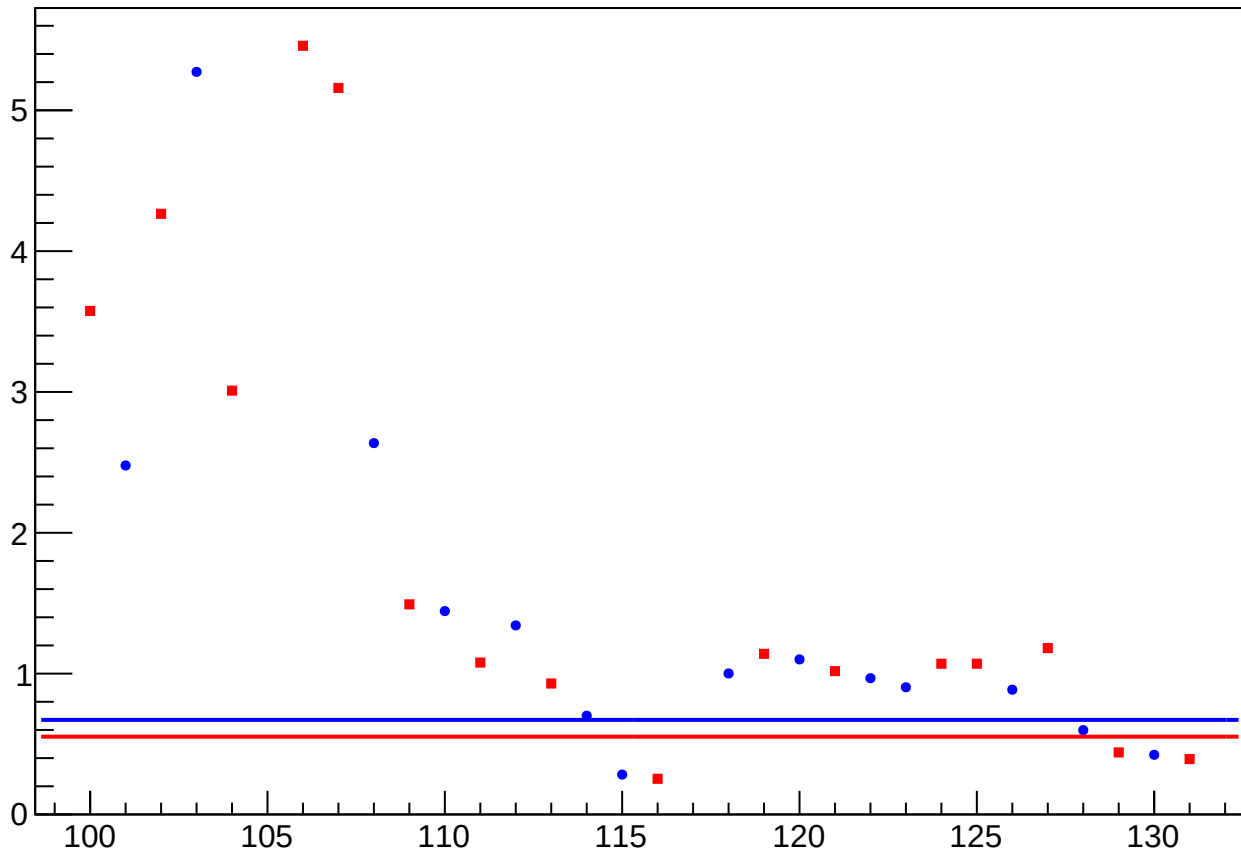
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 136.052 $\pm$ 0.000  $\chi^2$ /NDF: 1672763850.1

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

# yield\_cav4cQ\_rms vs Slug



Right In: 0.672 $\pm$ 0.000  $\chi^2$ /NDF: 3066602.1/13

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

Right Out: 0.552 $\pm$ 0.000  $\chi^2$ /NDF: 4587918.8/15

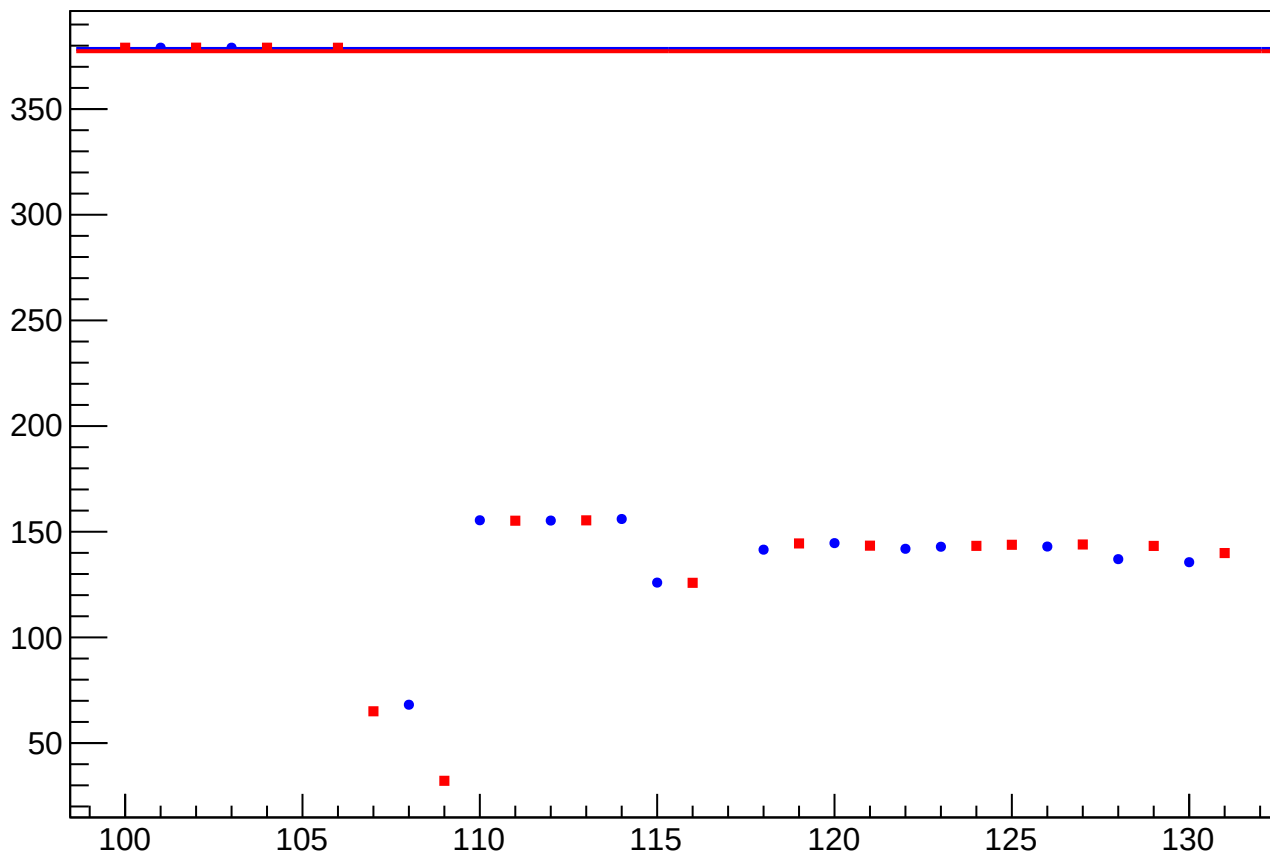
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 0.600 $\pm$ 0.000  $\chi^2$ /NDF: 7758024.6/29

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

# yield\_cav4dQ\_mean vs Slug



Right In: 378.448+/-0.000  $\chi^2/\text{NDF}$ : 2001467693961.3/13

+ 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

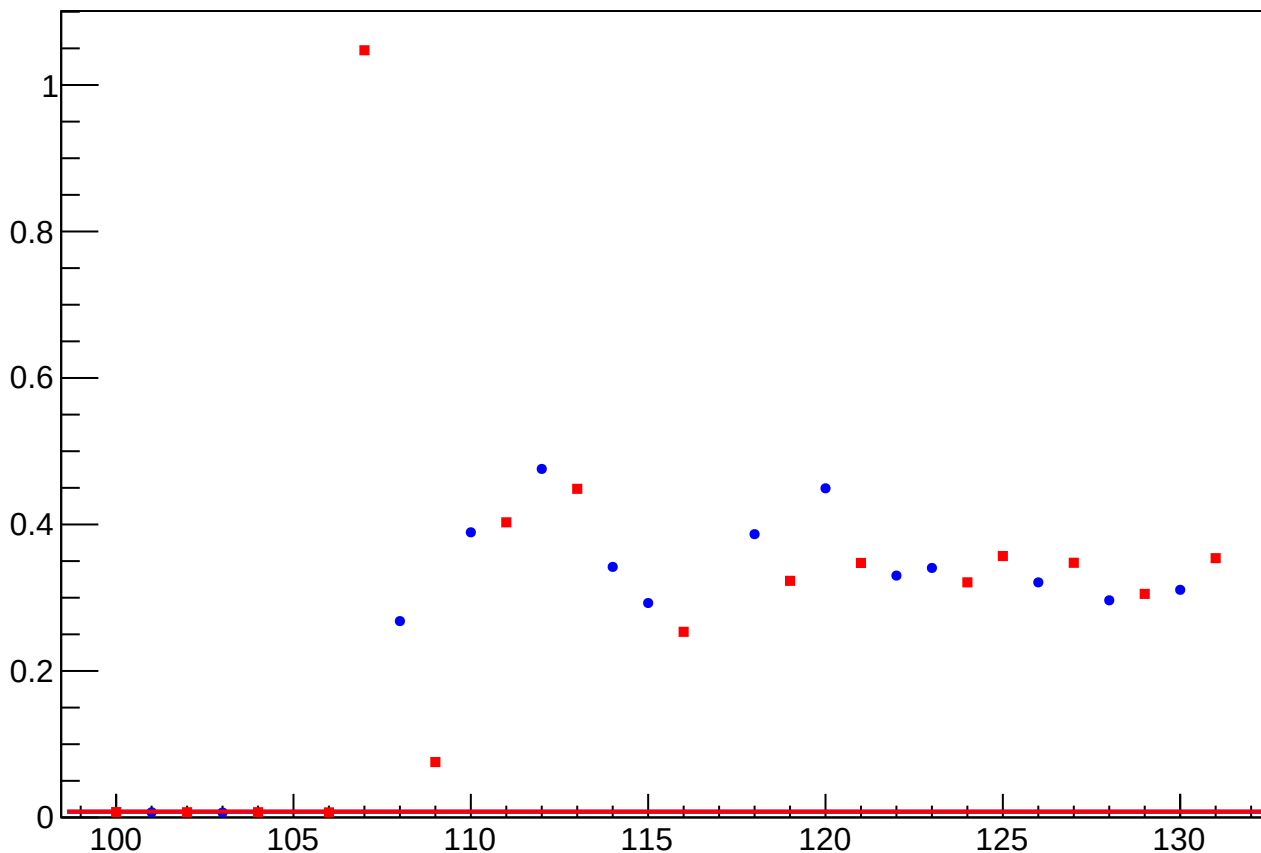
All: 377.878+/-0.000  $\chi^2/\text{NDF}$ : 997711568650

Right Out: 377.378+/-0.000  $\chi^2/\text{NDF}$ : 7967521490398.6/15

- 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: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 7179459.9/13

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

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 7468052.1/15

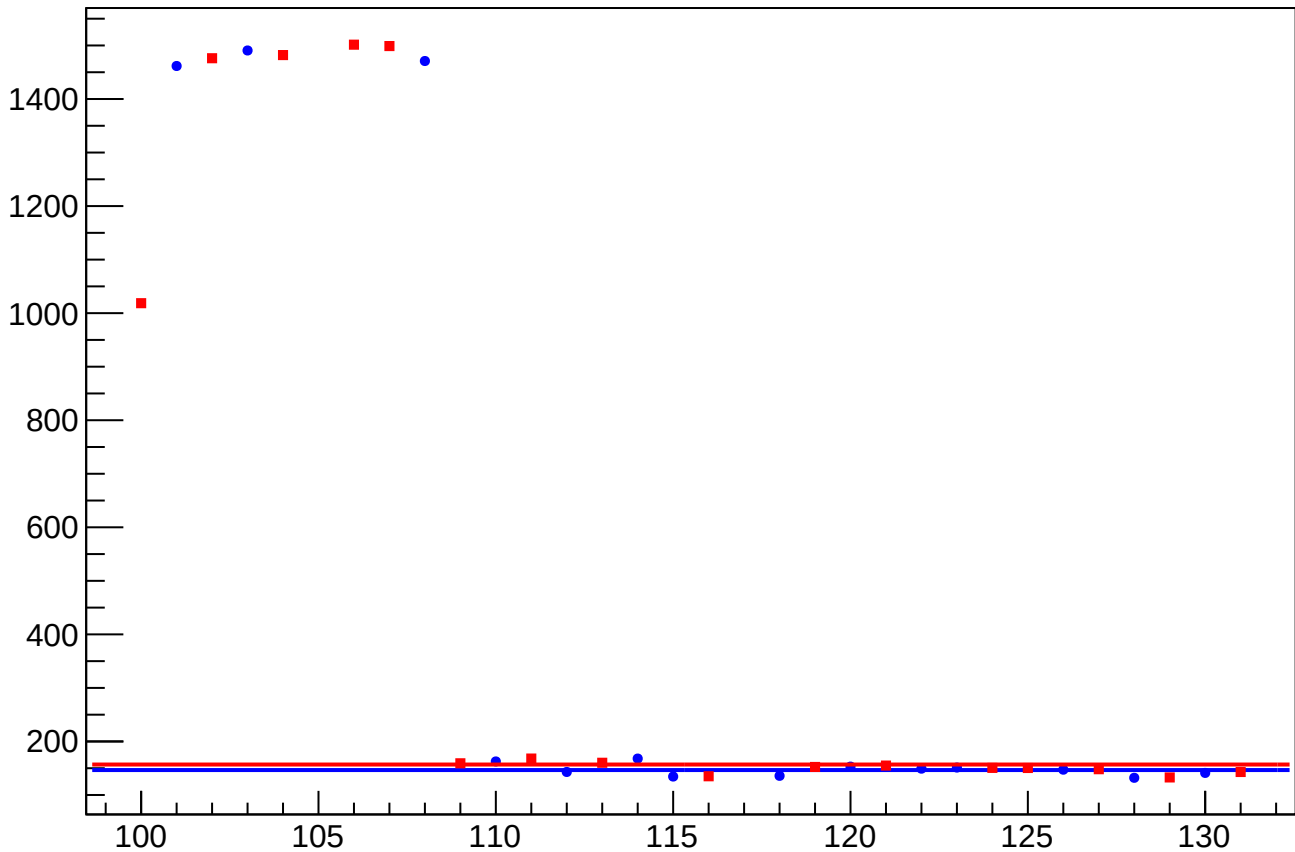
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 14647749.0/29

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

yield\_bcm0l02\_mean vs Slug



Right In: 146.567+/-0.000  $\chi^2/\text{NDF}$ : 24337534936.2/13

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

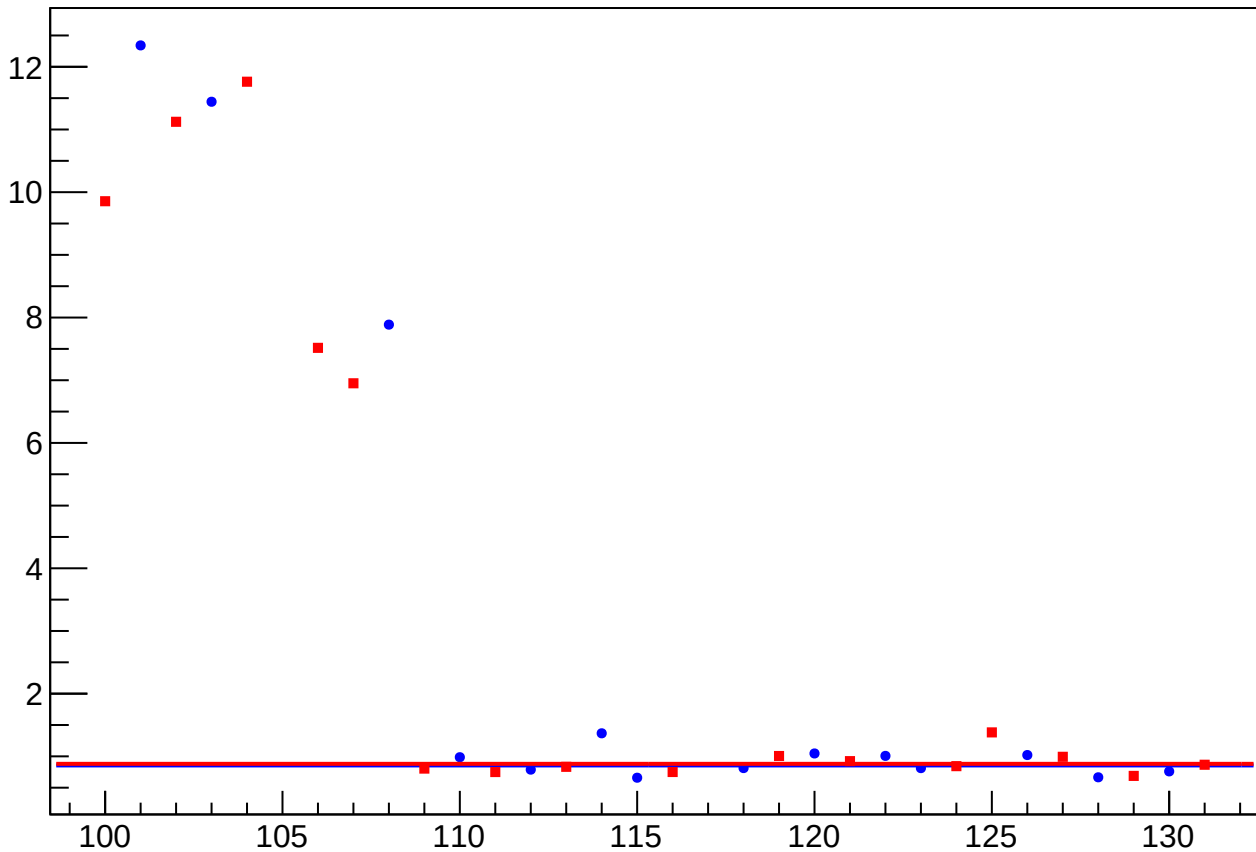
Right Out: 156.893+/-0.000  $\chi^2/\text{NDF}$ : 33442089599.5/15

All: 151.843+/-0.000  $\chi^2/\text{NDF}$ : 57998472566.

- 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: 0.855+/-0.000  $\chi^2/\text{NDF}$ : 2650611.7/13

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

Right Out: 0.881+/-0.000  $\chi^2/\text{NDF}$ : 2791477.4/15

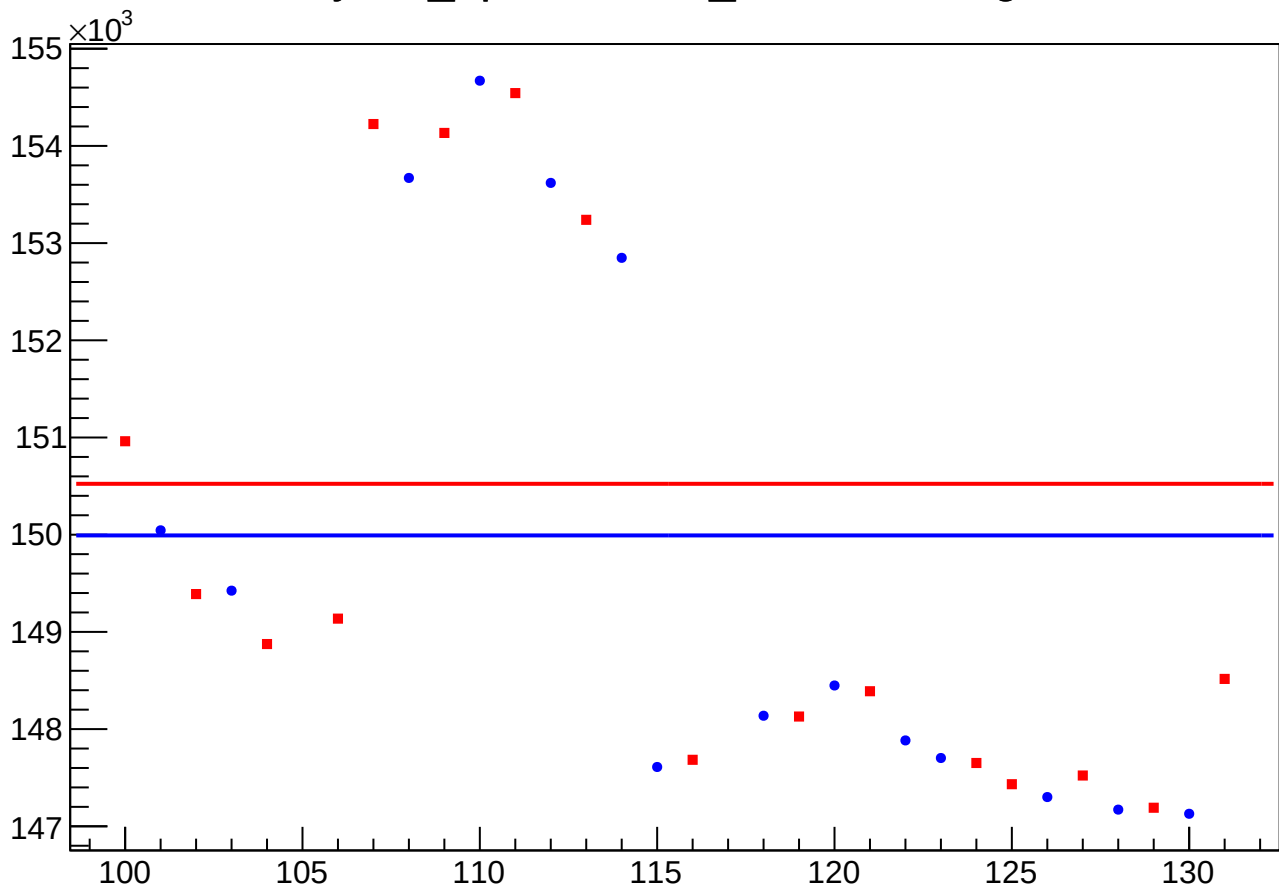
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 0.868+/-0.000  $\chi^2/\text{NDF}$ : 5444744.7/29

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

# yield\_bpm0i01WS\_mean vs Slug



Right In: 149992.575 $\pm$ 0.069  $\chi^2$ /NDF: 1832002082.2/13

+ 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

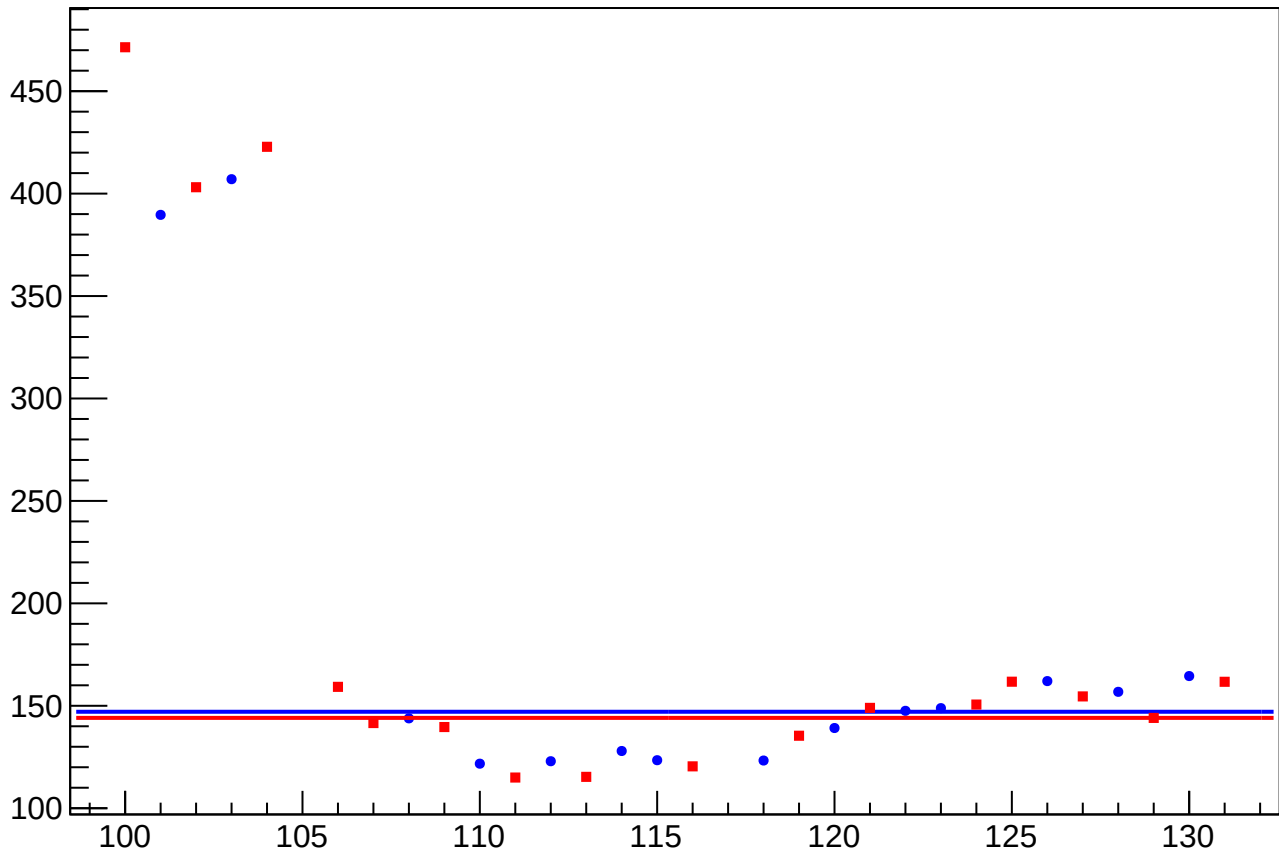
All: 150281.708 $\pm$ 0.047  $\chi^2$ /NDF: 415631067

Right Out: 150523.588 $\pm$ 0.063  $\chi^2$ /NDF: 2292192870.7/15

- 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: 147.086 $\pm$ 0.049  $\chi^2$ /NDF: 1051463.3/13

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

Right Out: 144.097 $\pm$ 0.045  $\chi^2$ /NDF: 1101303.4/15

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

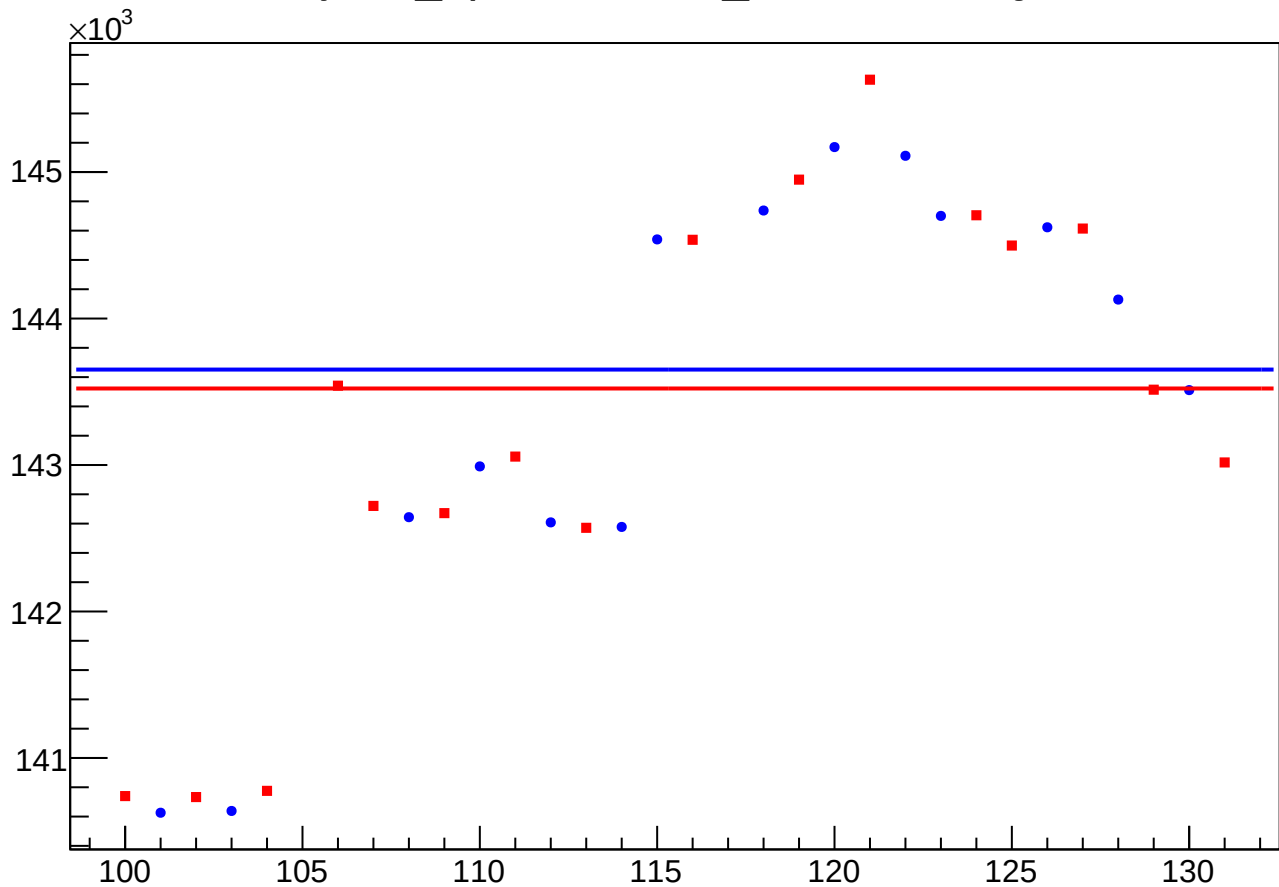
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 145.458 $\pm$ 0.033  $\chi^2$ /NDF: 2154801.4/29

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



# yield\_bpm0i01aWS\_mean vs Slug



Right In: 143651.602 $\pm$ 0.058  $\chi^2$ /NDF: 368840123.4/13

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

Right Out: 143522.392 $\pm$ 0.052  $\chi^2$ /NDF: 407092735.3/15

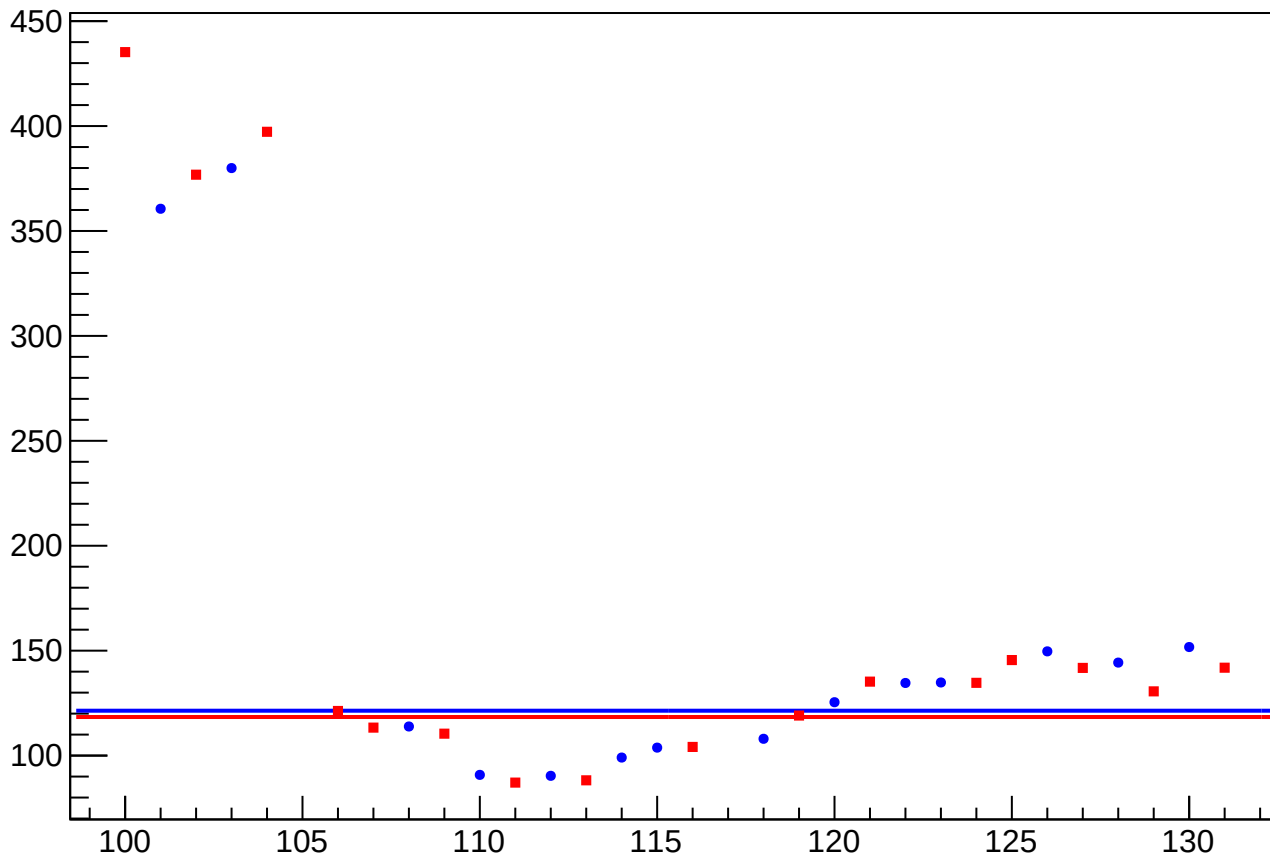
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 143580.087 $\pm$ 0.039  $\chi^2$ /NDF: 77867804.0

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

# yield\_bpm0i01aWS\_rms vs Slug



Right In: 121.387 $\pm$ 0.041  $\chi^2$ /NDF: 1347457.1/13

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

Right Out: 118.382 $\pm$ 0.037  $\chi^2$ /NDF: 1383907.7/15

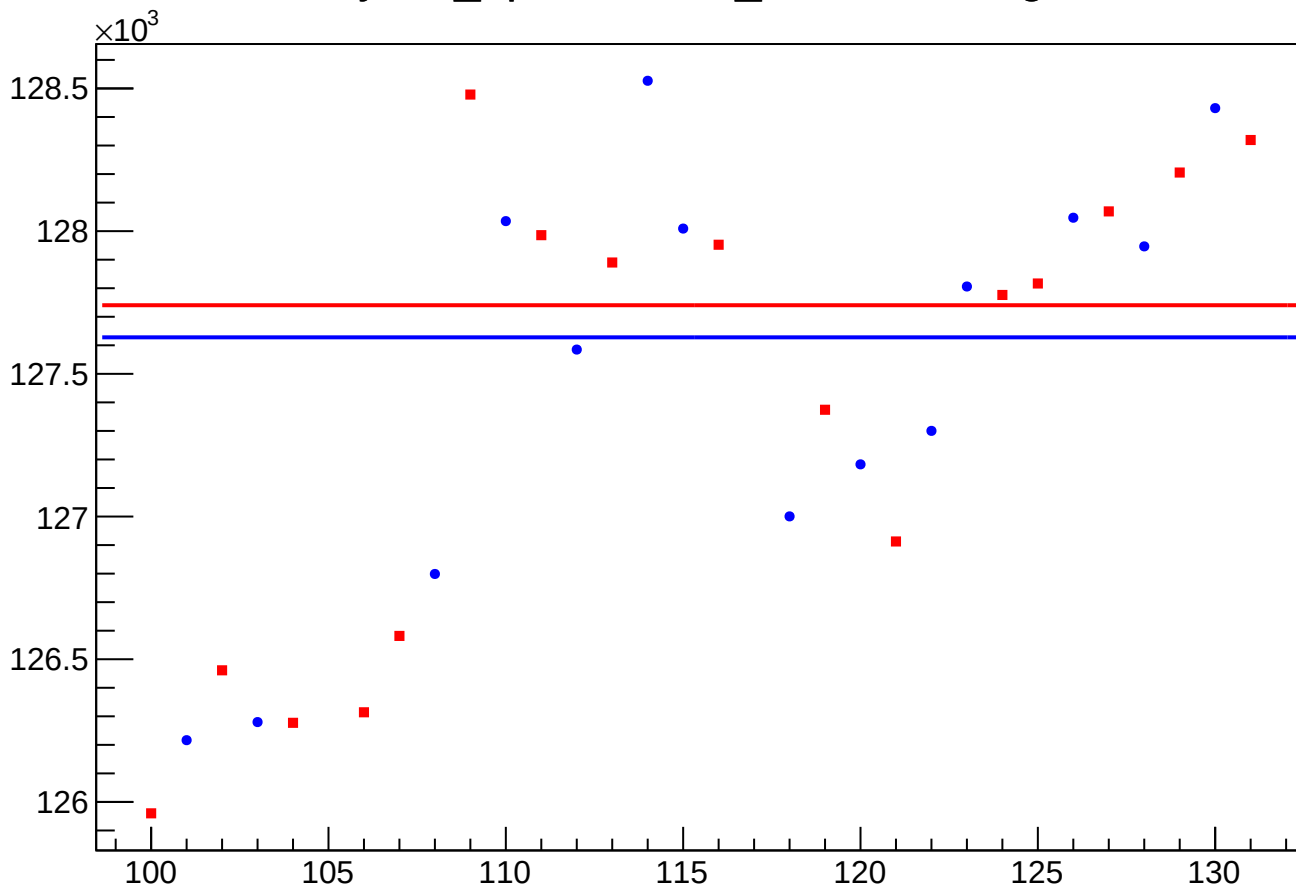
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 119.724 $\pm$ 0.027  $\chi^2$ /NDF: 2734333.1/29

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

# yield\_bpm0l01WS\_mean vs Slug



Right In: 127627.915 $\pm$ 0.066  $\chi^2$ /NDF: 84045204.4/13

+ 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

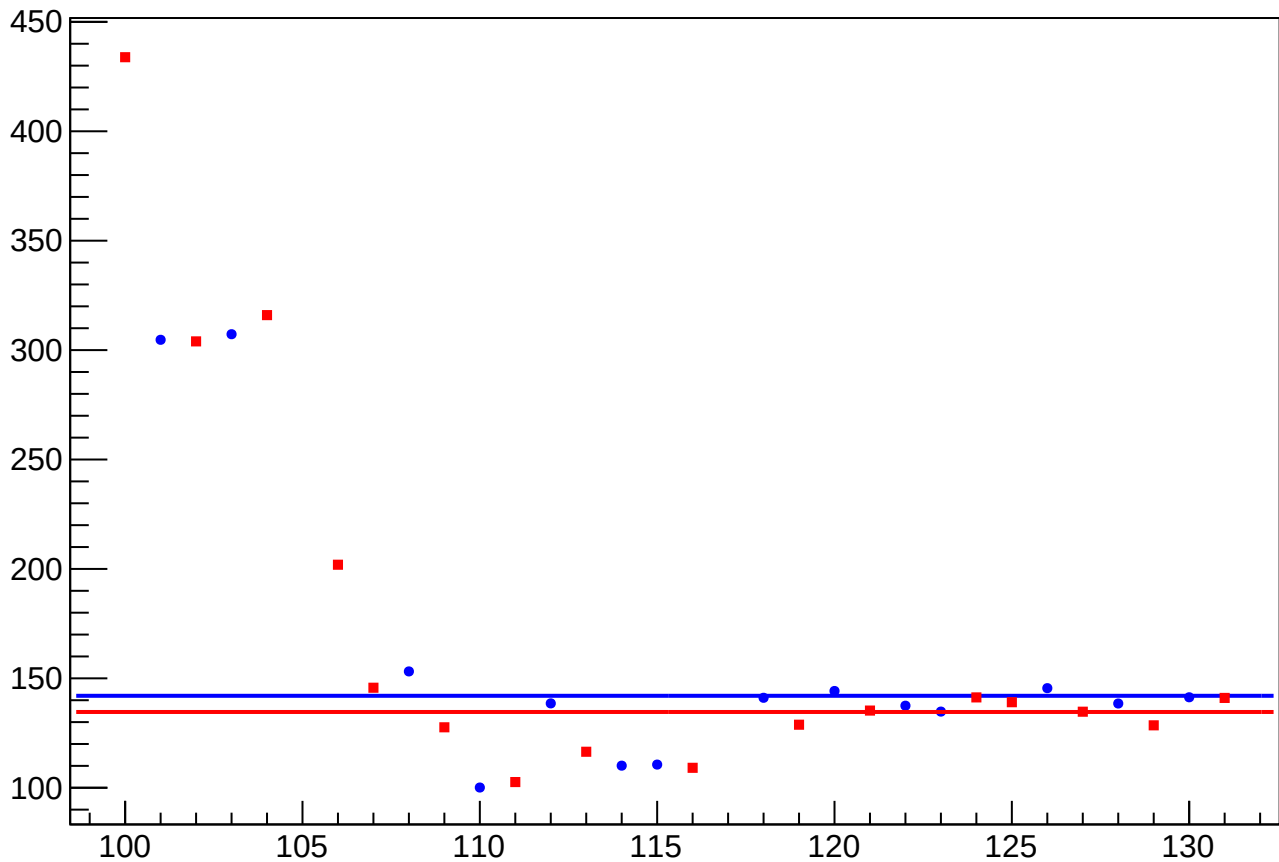
All: 127691.314 $\pm$ 0.044  $\chi^2$ /NDF: 194593970

Right Out: 127740.433 $\pm$ 0.058  $\chi^2$ /NDF: 108922598.6/15

- 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: 142.024+/-0.047  $\chi^2/\text{NDF}$ : 822849.3/13

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

Right Out: 134.628+/-0.041  $\chi^2/\text{NDF}$ : 927637.6/15

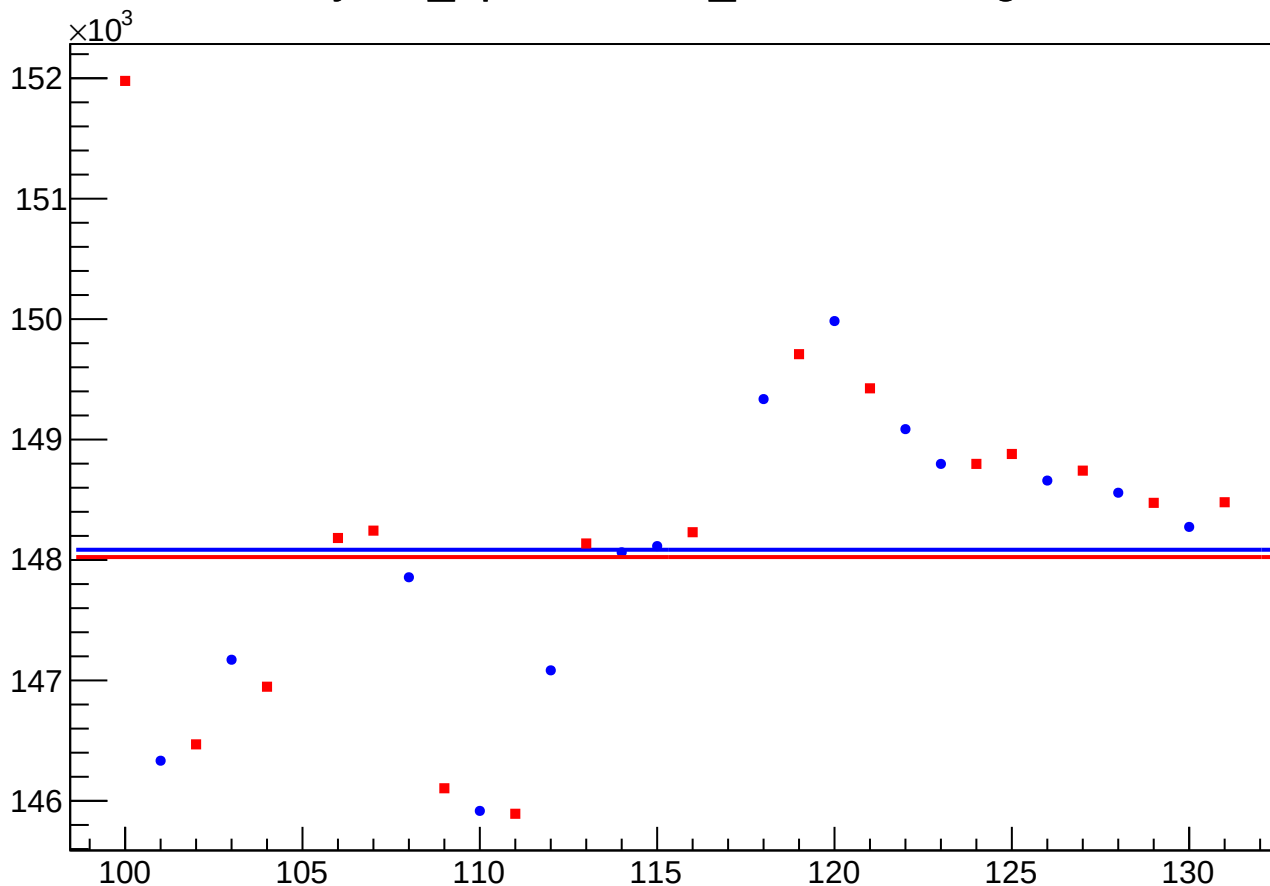
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 137.857+/-0.031  $\chi^2/\text{NDF}$ : 1764536.4/29

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

# yield\_bpm0l02WS\_mean vs Slug



Right In: 148085.042 $\pm$ 0.097  $\chi^2$ /NDF: 107268816.6/13

+ 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

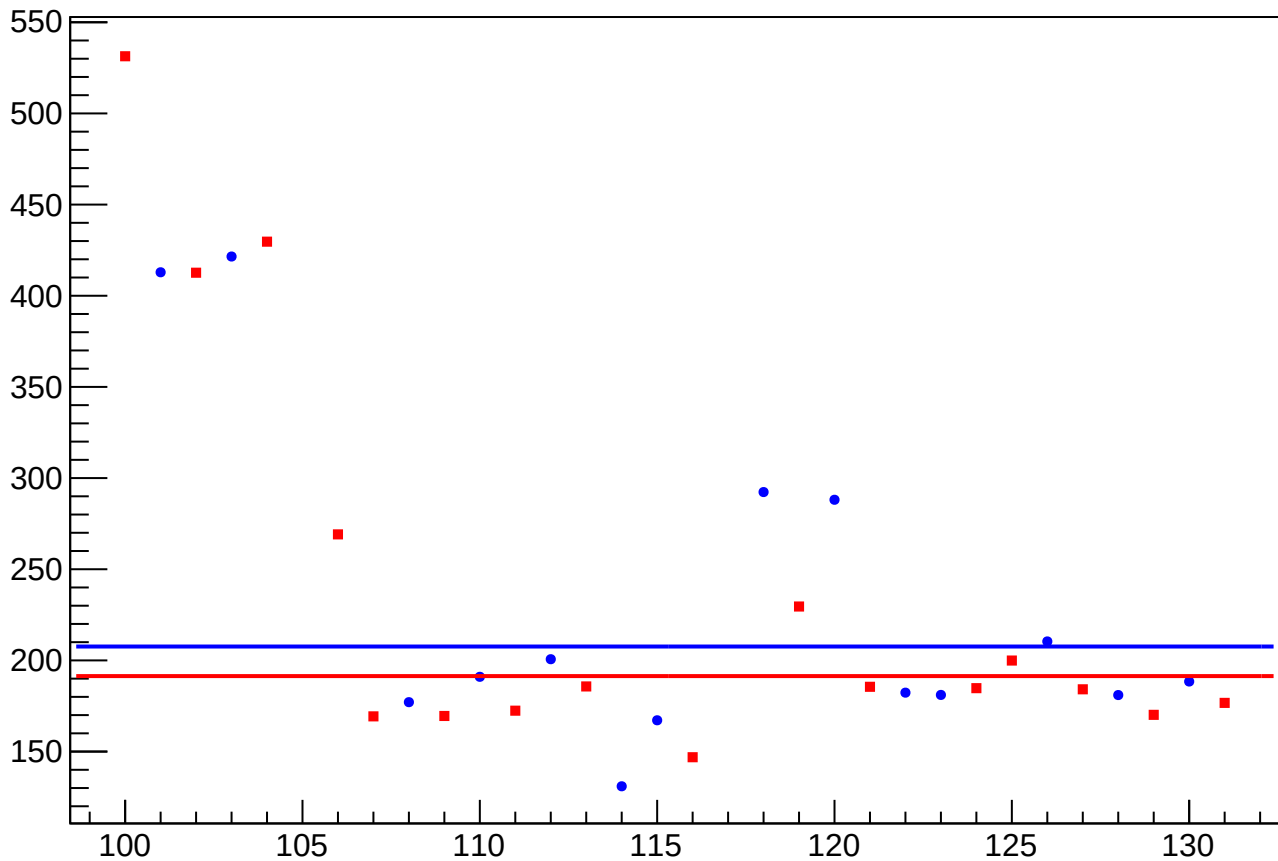
Right Out: 148024.269 $\pm$ 0.083  $\chi^2$ /NDF: 209355478.1/15

All: 148049.904 $\pm$ 0.063  $\chi^2$ /NDF: 316850543

- 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: 207.614 $\pm$ 0.069  $\chi^2$ /NDF: 873417.2/13

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

Right Out: 191.394 $\pm$ 0.059  $\chi^2$ /NDF: 842032.9/15

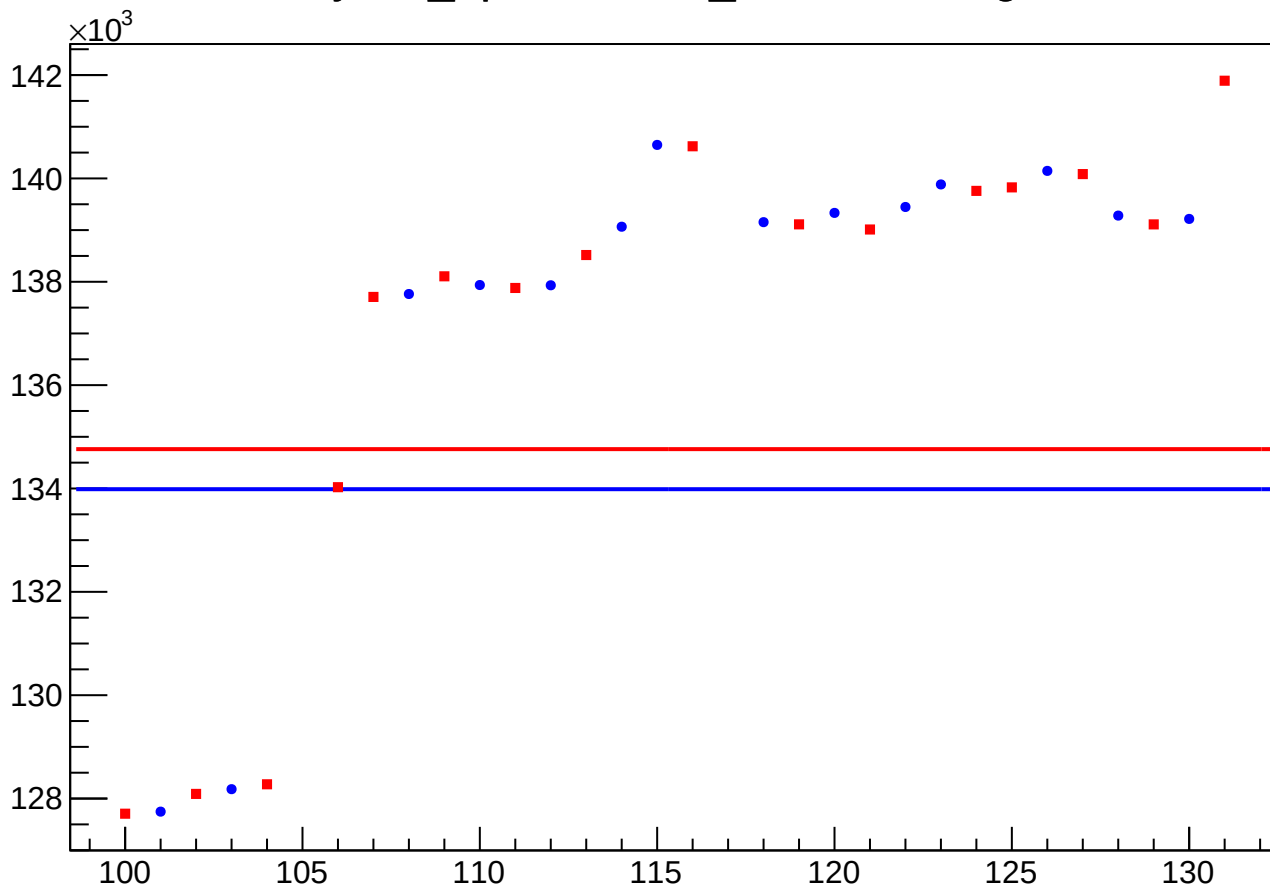
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

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

All: 198.236 $\pm$ 0.045  $\chi^2$ /NDF: 1747681.0/29

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

# yield\_bpm0l03WS\_mean vs Slug



Right In: 133986.294 $\pm$ 0.198  $\chi^2$ /NDF: 778892545.7/13

+ 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

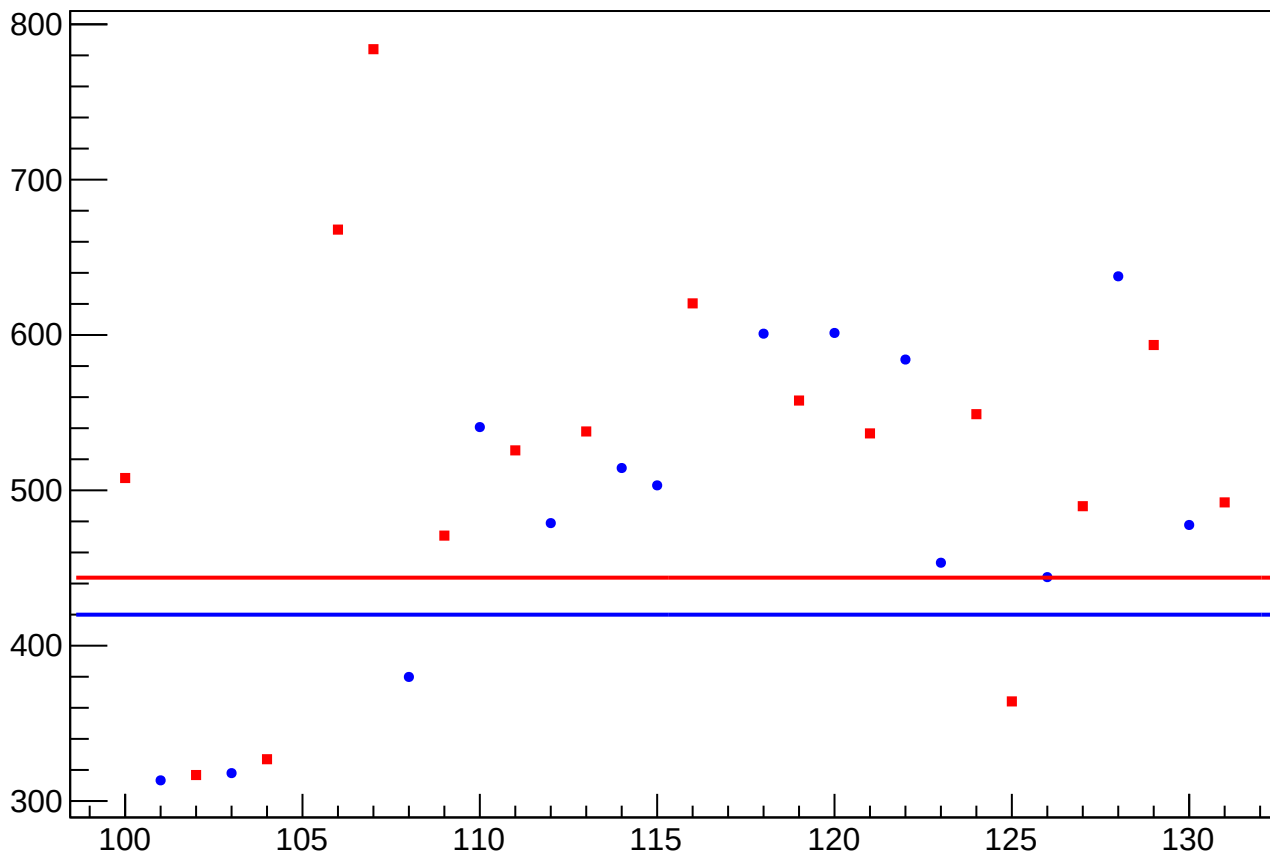
Right Out: 134761.617 $\pm$ 0.195  $\chi^2$ /NDF: 770422144.4/15

All: 134378.454 $\pm$ 0.139  $\chi^2$ /NDF: 155709045

- 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: 419.960+/-0.140  $\chi^2/\text{NDF}$ : 632547.2/13

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

Right Out: 443.787+/-0.138  $\chi^2/\text{NDF}$ : 729973.4/15

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

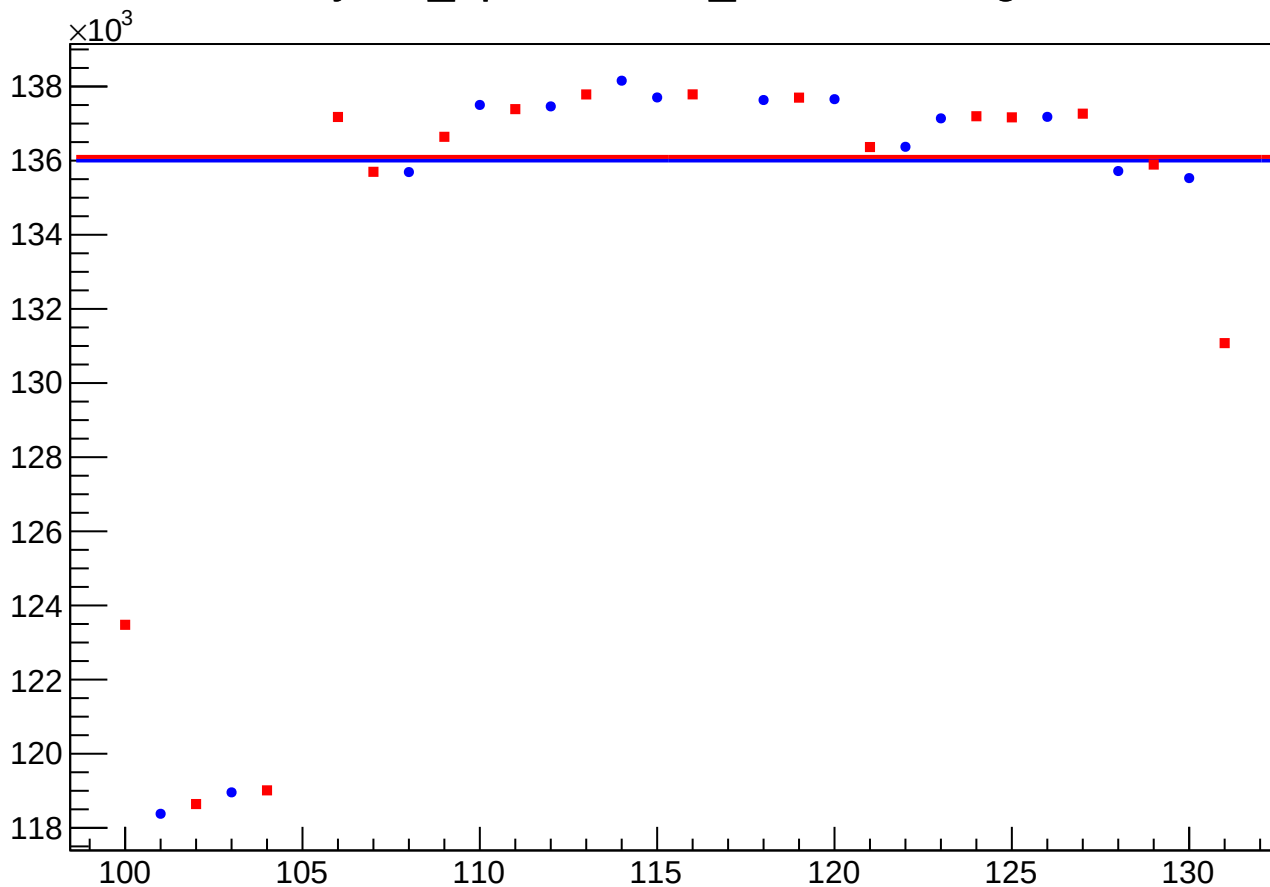
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 432.012+/-0.098  $\chi^2/\text{NDF}$ : 1377208.6/29

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



# yield\_bpm0l04WS\_mean vs Slug



Right In: 136004.005 $\pm$ 0.075  $\chi^2$ /NDF: 3414942418.0/13

+ 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

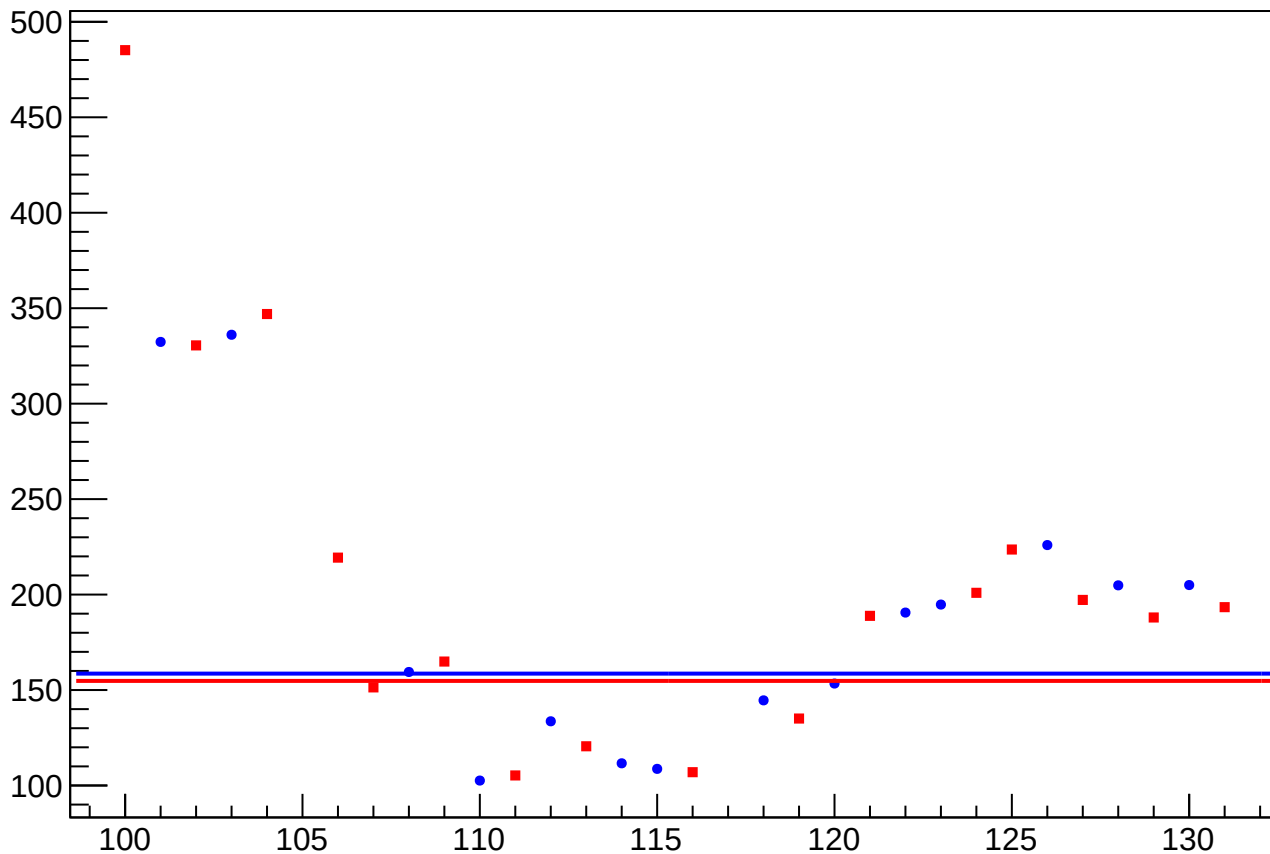
All: 136057.240 $\pm$ 0.051  $\chi^2$ /NDF: 674077565

Right Out: 136100.968 $\pm$ 0.068  $\chi^2$ /NDF: 3324922886.3/15

- 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: 158.601+/-0.053  $\chi^2/\text{NDF}$ : 1145176.2/13

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

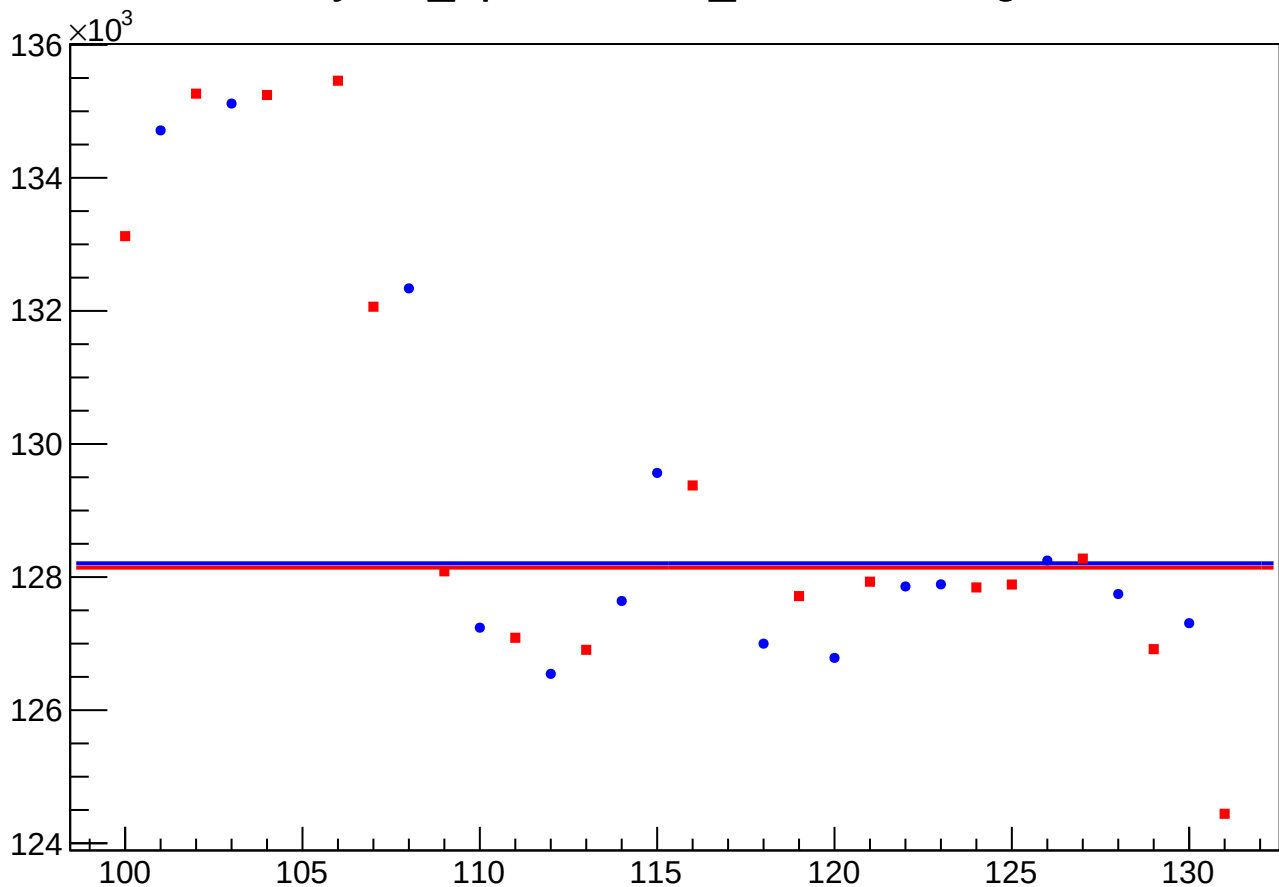
Right Out: 154.782+/-0.048  $\chi^2/\text{NDF}$ : 1286167.3/15

All: 156.504+/-0.036  $\chi^2/\text{NDF}$ : 2434168.3/29

- 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\_bpm0l05WS\_mean vs Slug



Right In: 128207.014 $\pm$ 0.077  $\chi^2$ /NDF: 756754297.1/13

+ 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

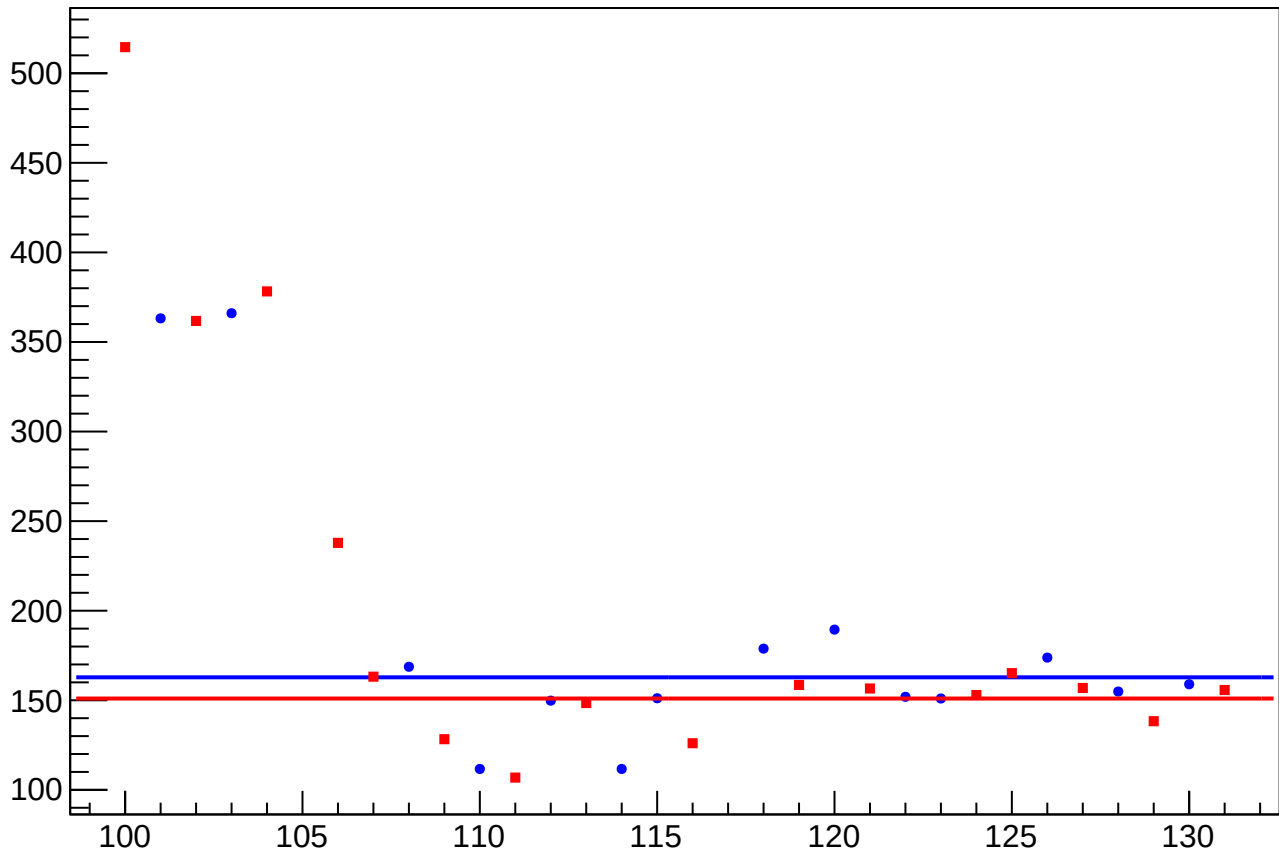
All: 128169.847 $\pm$ 0.050  $\chi^2$ /NDF: 192535095

Right Out: 128142.204 $\pm$ 0.067  $\chi^2$ /NDF: 1168192729.4/15

- 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: 162.817 $\pm$ 0.055  $\chi^2$ /NDF: 919721.6/13

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

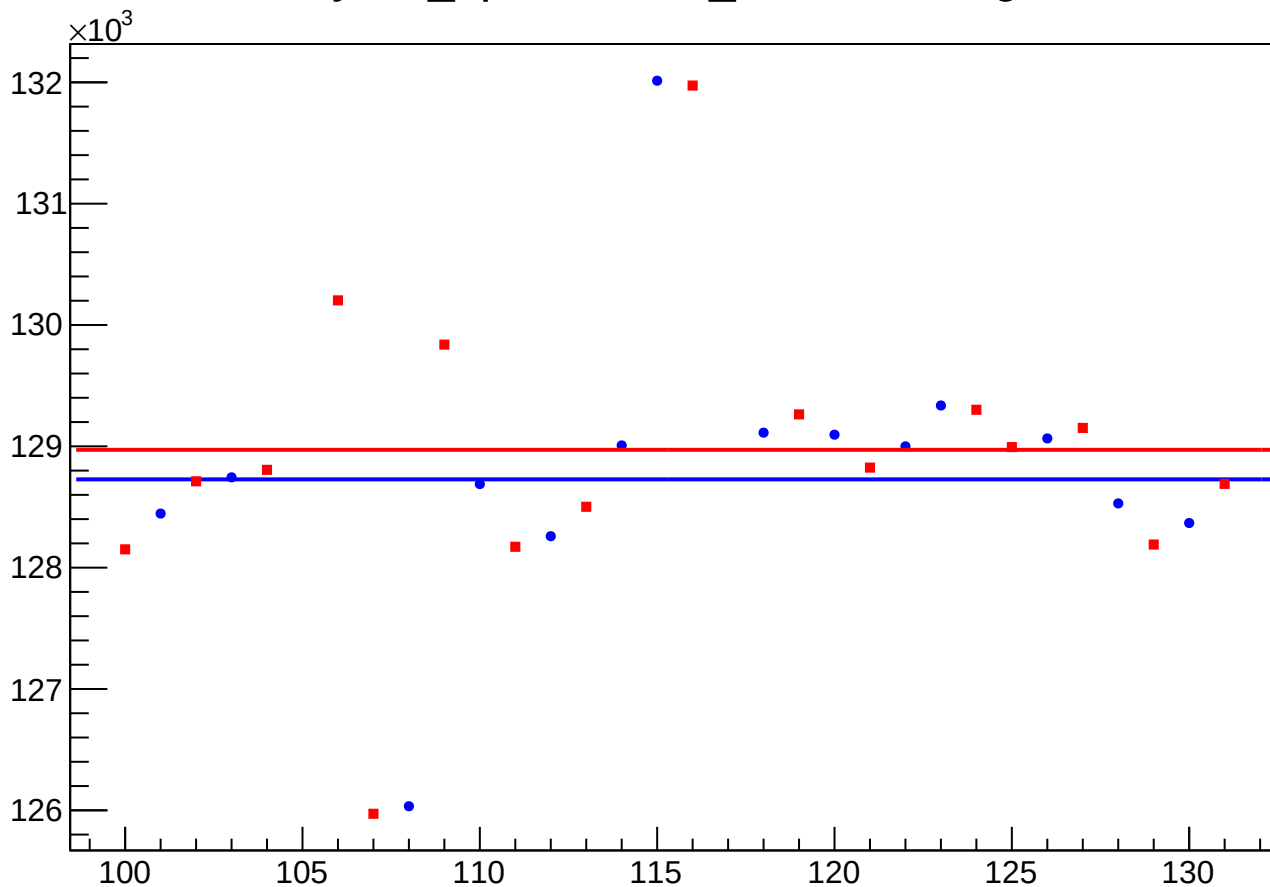
Right Out: 150.980 $\pm$ 0.047  $\chi^2$ /NDF: 1069764.0/15

All: 156.029 $\pm$ 0.036  $\chi^2$ /NDF: 2016439.5/29

- 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\_mean vs Slug



Right In: 128727.630 $\pm$ 0.067  $\chi^2$ /NDF: 284084903.7/13

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

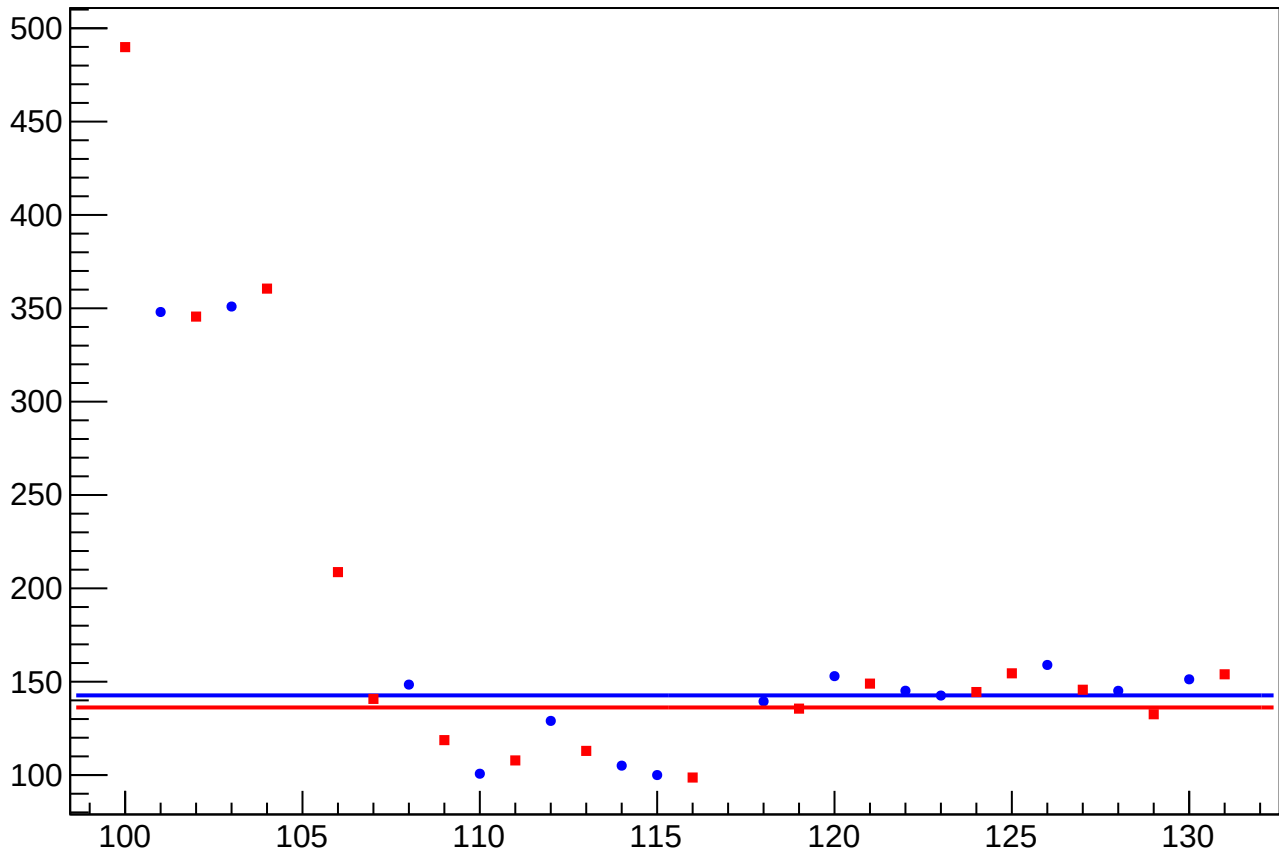
Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 128971.237 $\pm$ 0.060  $\chi^2$ /NDF: 466820174.6/15 All: 128864.083 $\pm$ 0.045  $\chi^2$ /NDF: 758273430

- 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: 142.669+/-0.047  $\chi^2/\text{NDF}$ : 1022130.9/13

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

Right Out: 136.204+/-0.042  $\chi^2/\text{NDF}$ : 1130260.0/15

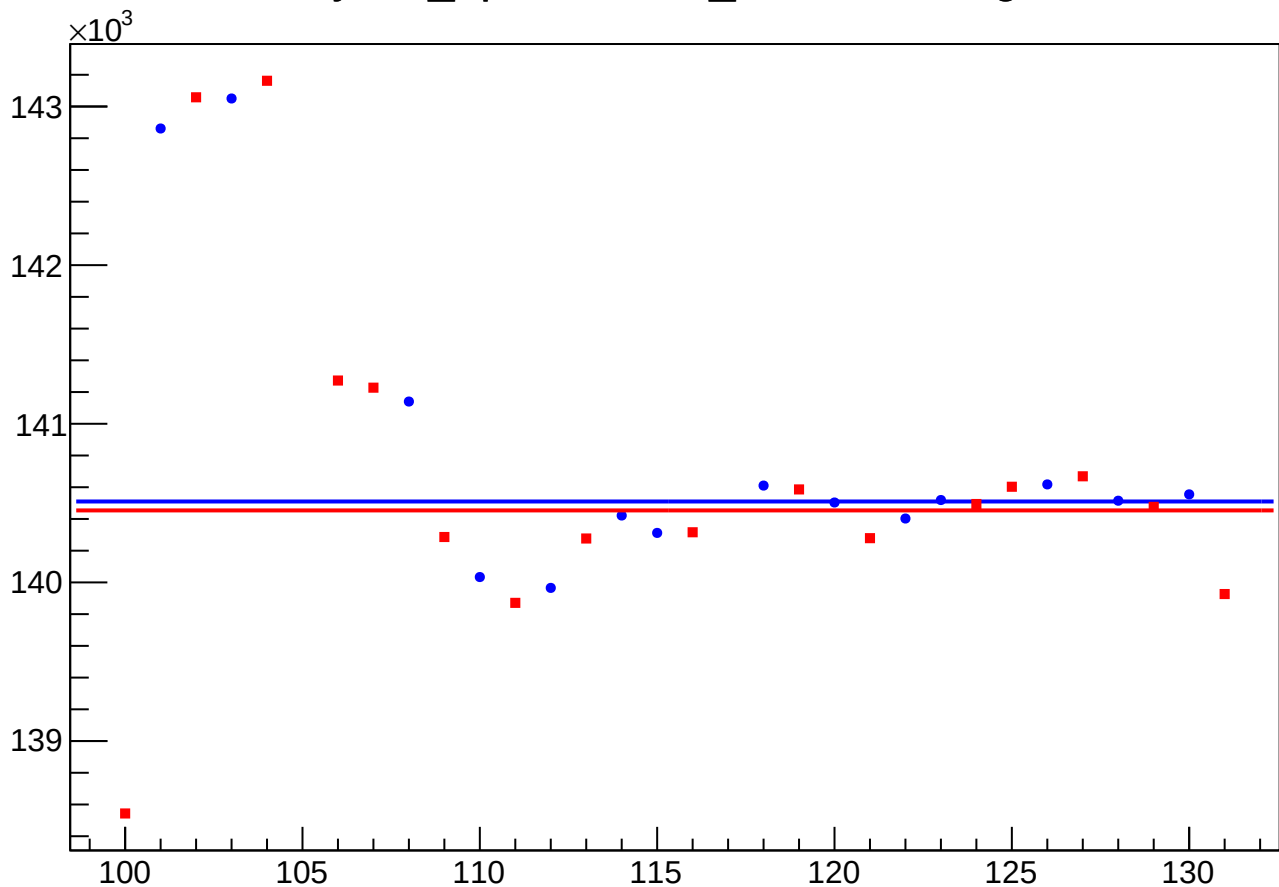
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

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

All: 139.048+/-0.031  $\chi^2/\text{NDF}$ : 2162770.2/29

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

# yield\_bpm0l07WS\_mean vs Slug



Right In: 140510.156 $\pm$ 0.072  $\chi^2$ /NDF: 63031402.8/13

+ 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

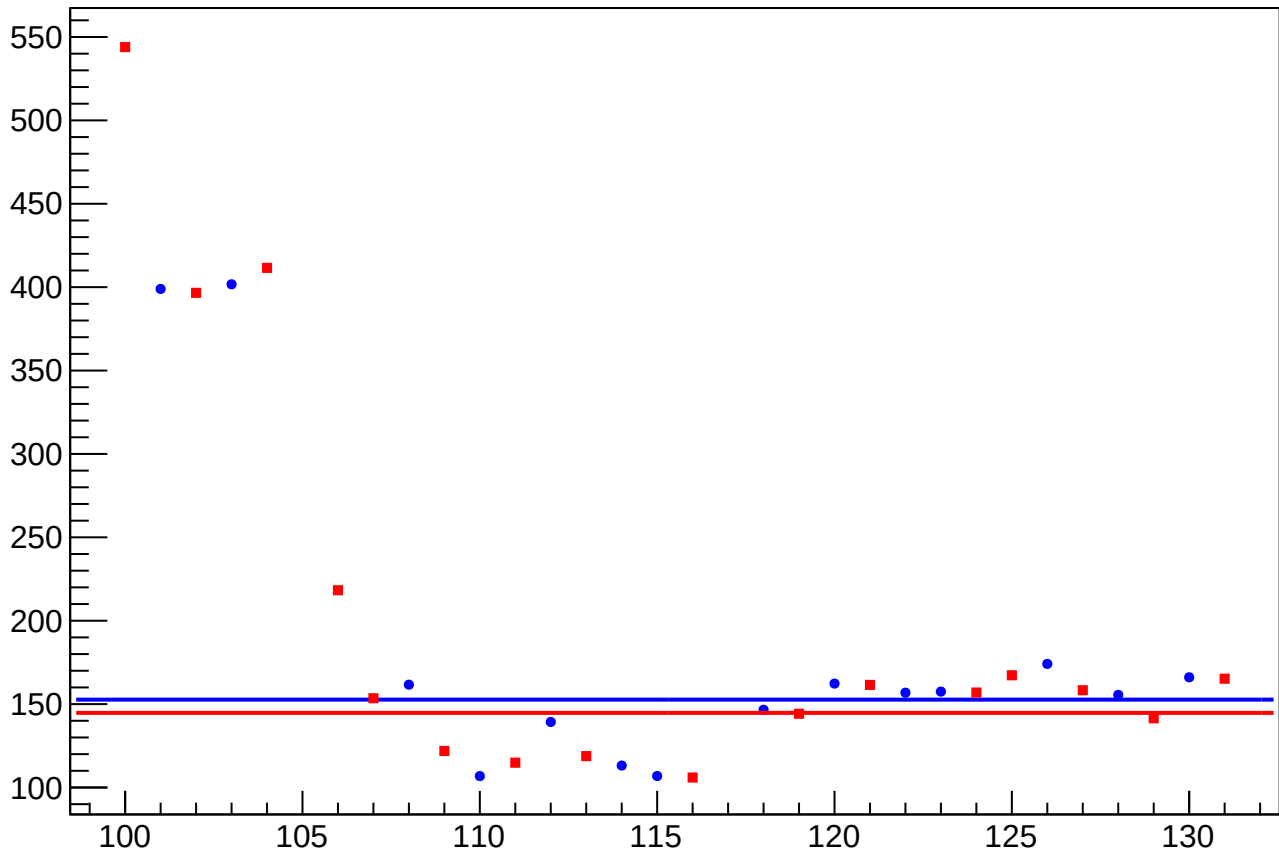
Right Out: 140453.837 $\pm$ 0.063  $\chi^2$ /NDF: 77184540.6/15

All: 140478.418 $\pm$ 0.048  $\chi^2$ /NDF: 140560030

- 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: 152.689+/-0.051  $\chi^2/\text{NDF}$ : 1114073.1/13

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

Right Out: 144.736+/-0.045  $\chi^2/\text{NDF}$ : 1226973.8/15

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

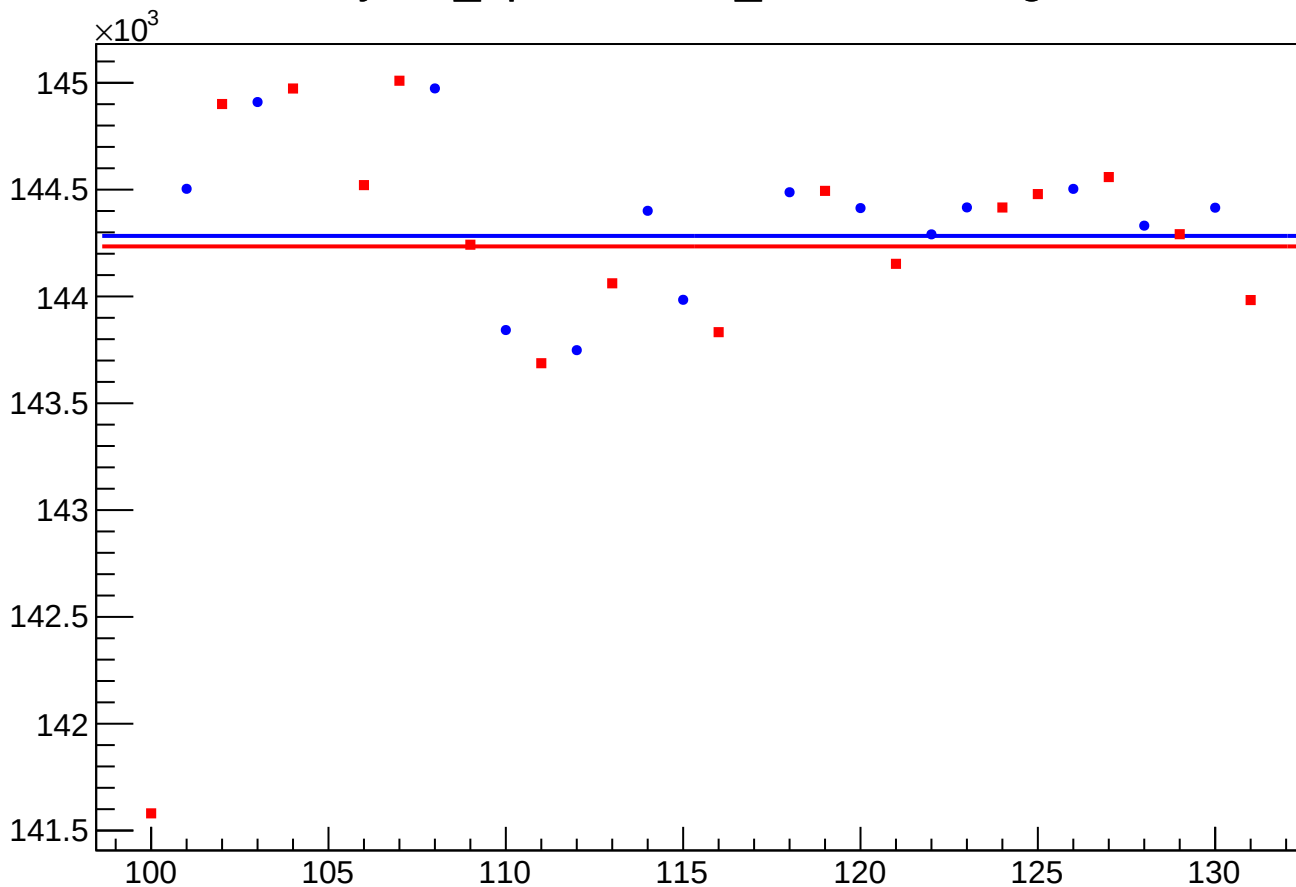
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 148.207+/-0.034  $\chi^2/\text{NDF}$ : 2354769.9/29

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



# yield\_bpm0l08WS\_mean vs Slug



Right In: 144283.387 $\pm$ 0.074  $\chi^2$ /NDF: 22056862.3/13

+ 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

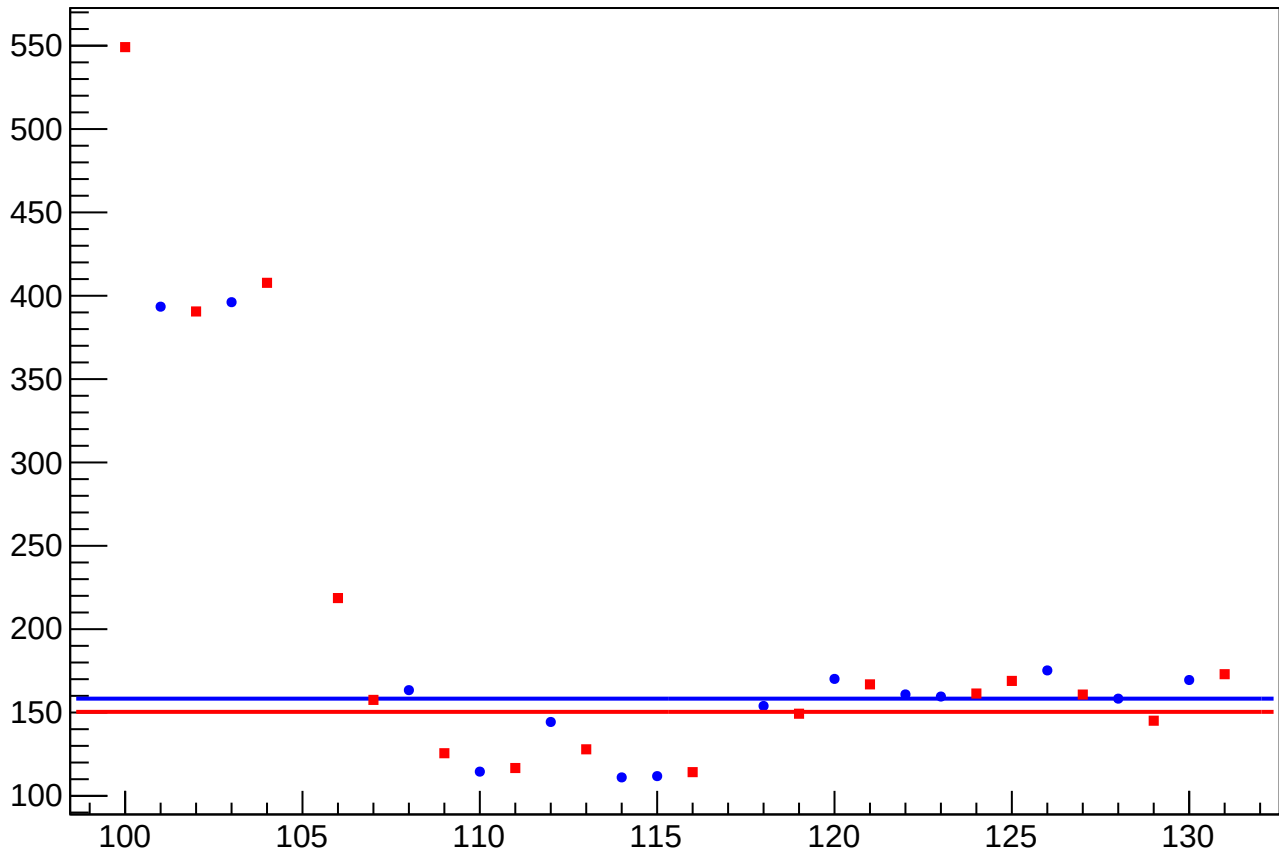
Right Out: 144234.258 $\pm$ 0.066  $\chi^2$ /NDF: 31781732.7/15

All: 144255.748 $\pm$ 0.049  $\chi^2$ /NDF: 54083563.

- 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: 158.325+/-0.053  $\chi^2/\text{NDF}$ : 1033012.7/13

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

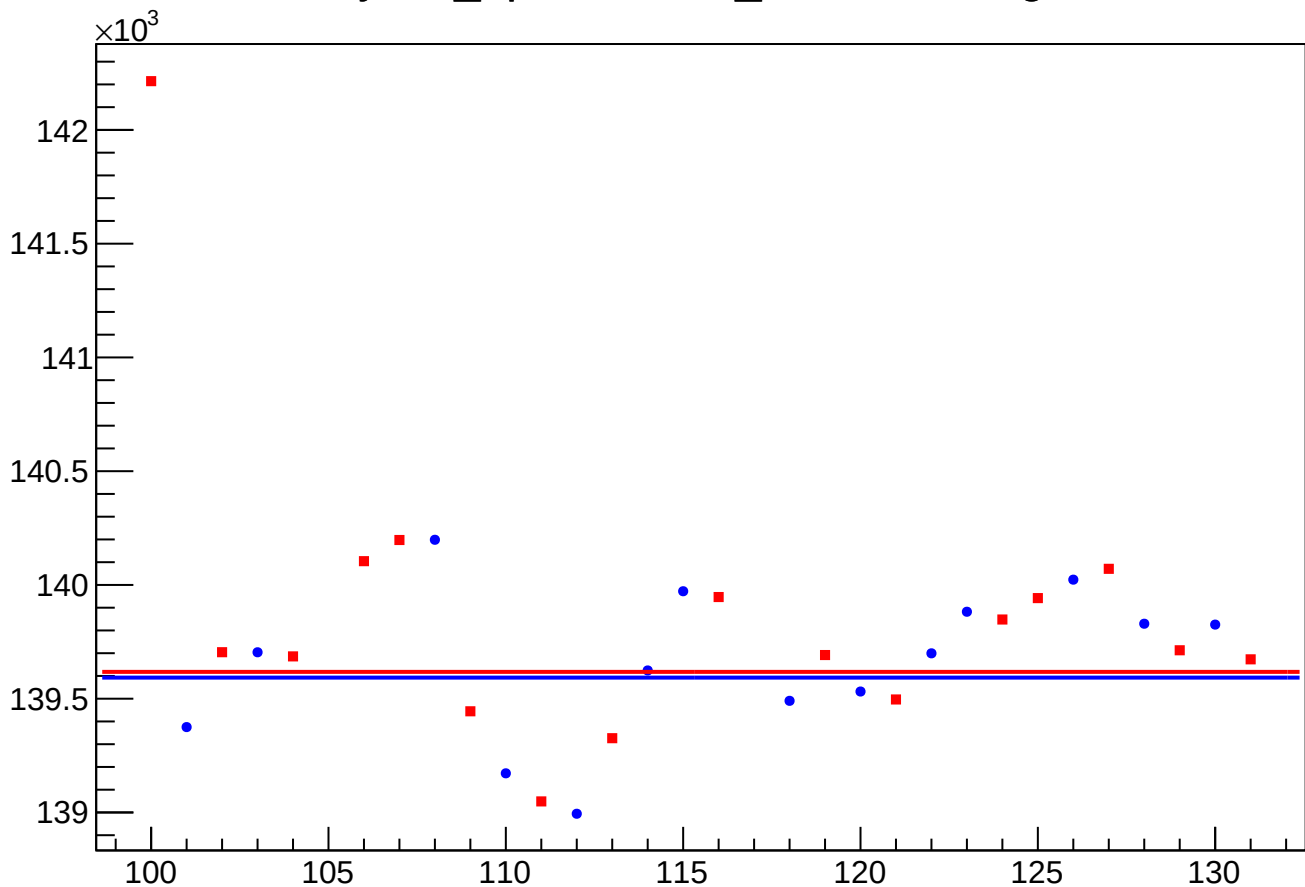
Right Out: 150.396+/-0.046  $\chi^2/\text{NDF}$ : 1147774.8/15

All: 153.865+/-0.035  $\chi^2/\text{NDF}$ : 2193547.0/29

- 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\_bpm0l09WS\_mean vs Slug



Right In: 139592.686 $\pm$ 0.076  $\chi^2$ /NDF: 22549976.3/13

+ 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

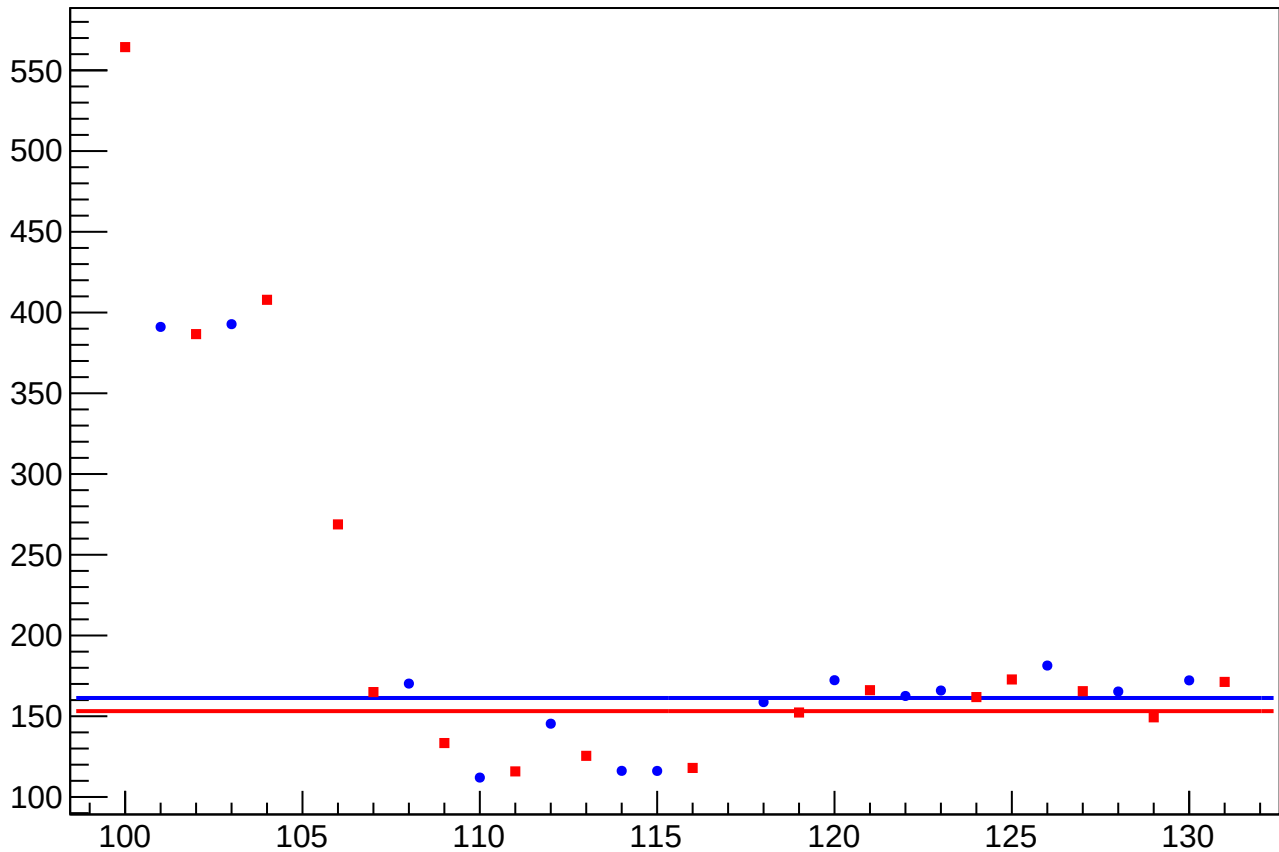
Right Out: 139617.913 $\pm$ 0.067  $\chi^2$ /NDF: 26924249.3/15

All: 139606.878 $\pm$ 0.050  $\chi^2$ /NDF: 49536320.

- 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: 161.306 $\pm$ 0.054  $\chi^2$ /NDF: 1026372.5/13

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

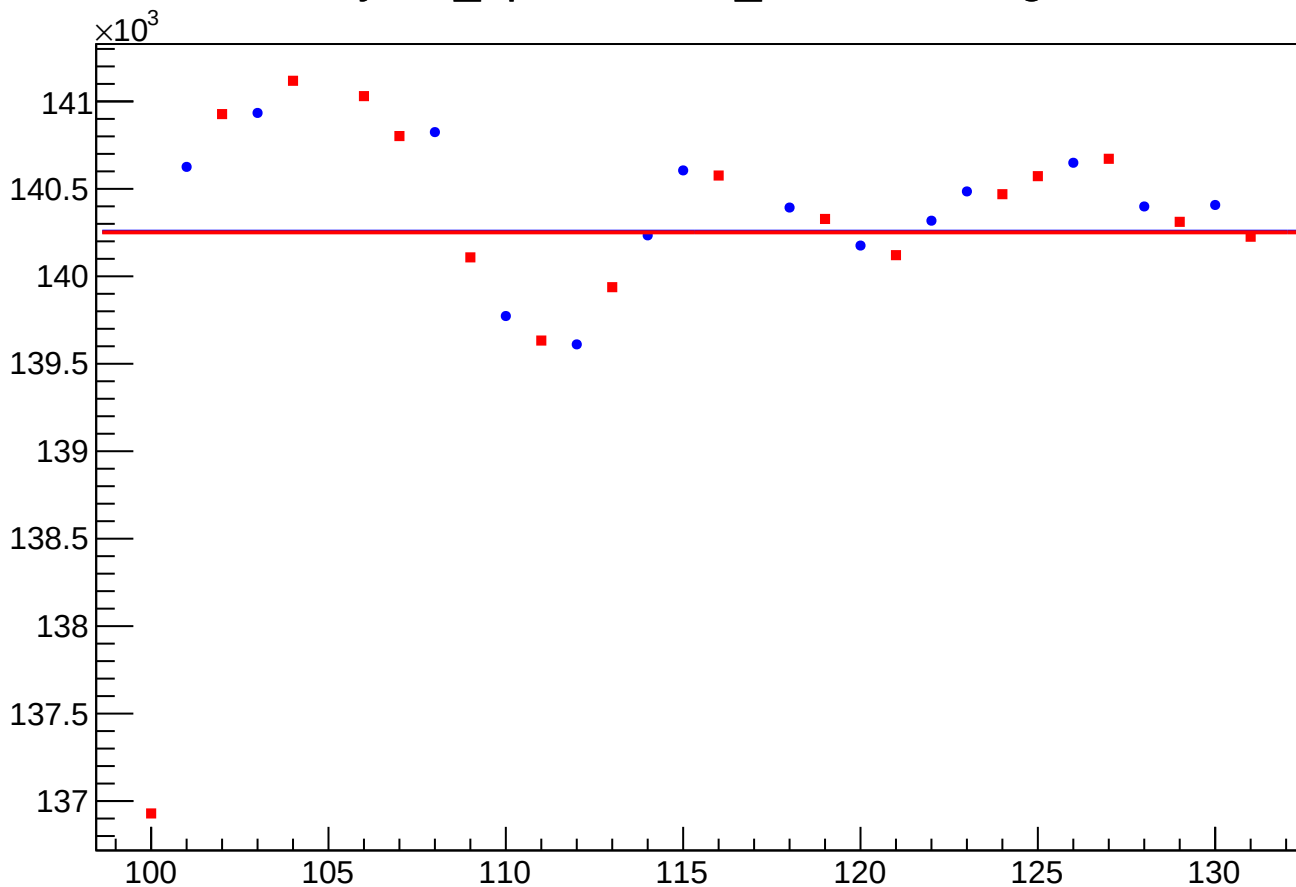
Right Out: 153.168 $\pm$ 0.047  $\chi^2$ /NDF: 1177600.5/15

All: 156.728 $\pm$ 0.036  $\chi^2$ /NDF: 2216893.3/29

- 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\_mean vs Slug



Right In: 140255.135 $\pm$ 0.077  $\chi^2$ /NDF: 25041556.8/13

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

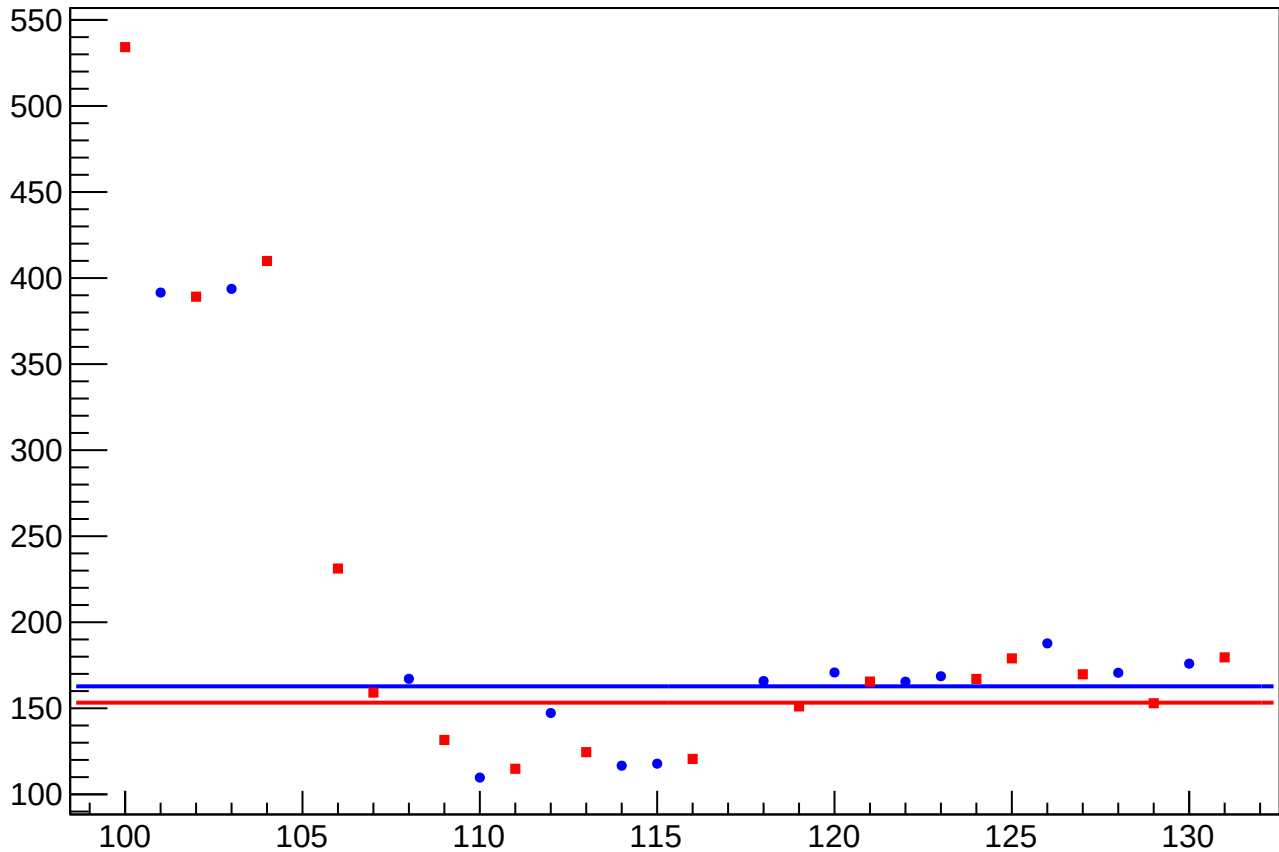
Right Out: 140251.366 $\pm$ 0.067  $\chi^2$ /NDF: 35201757.1/15

All: 140253.000 $\pm$ 0.050  $\chi^2$ /NDF: 60244684.

- 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: 162.762 $\pm$ 0.054  $\chi^2$ /NDF: 1048878.8/13

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

Right Out: 153.278 $\pm$ 0.047  $\chi^2$ /NDF: 1160404.3/15

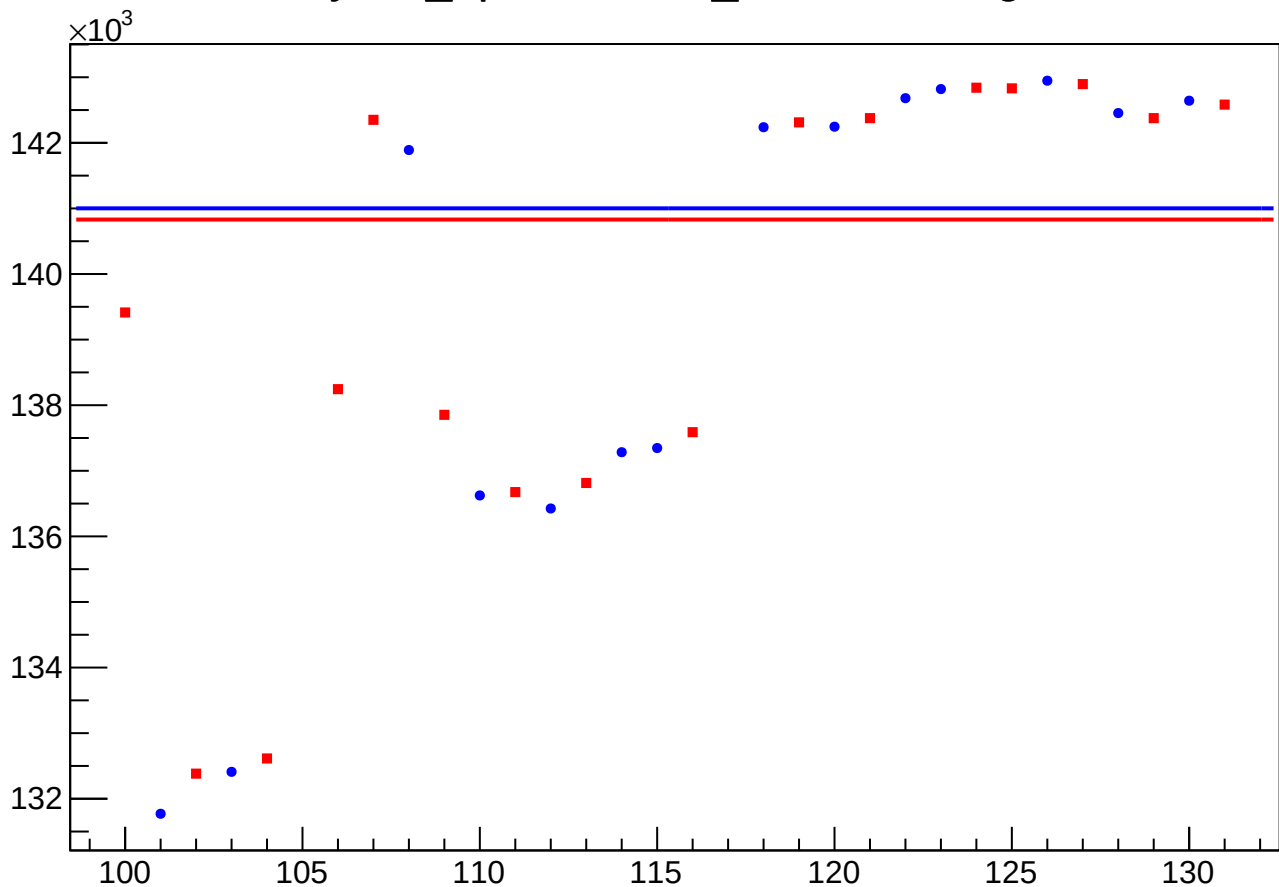
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 157.389 $\pm$ 0.036  $\chi^2$ /NDF: 2226631.6/29

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

# yield\_bpm0r03WS\_mean vs Slug



Right In: 141001.412 $\pm$ 0.112  $\chi^2$ /NDF: 746210940.2/13

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

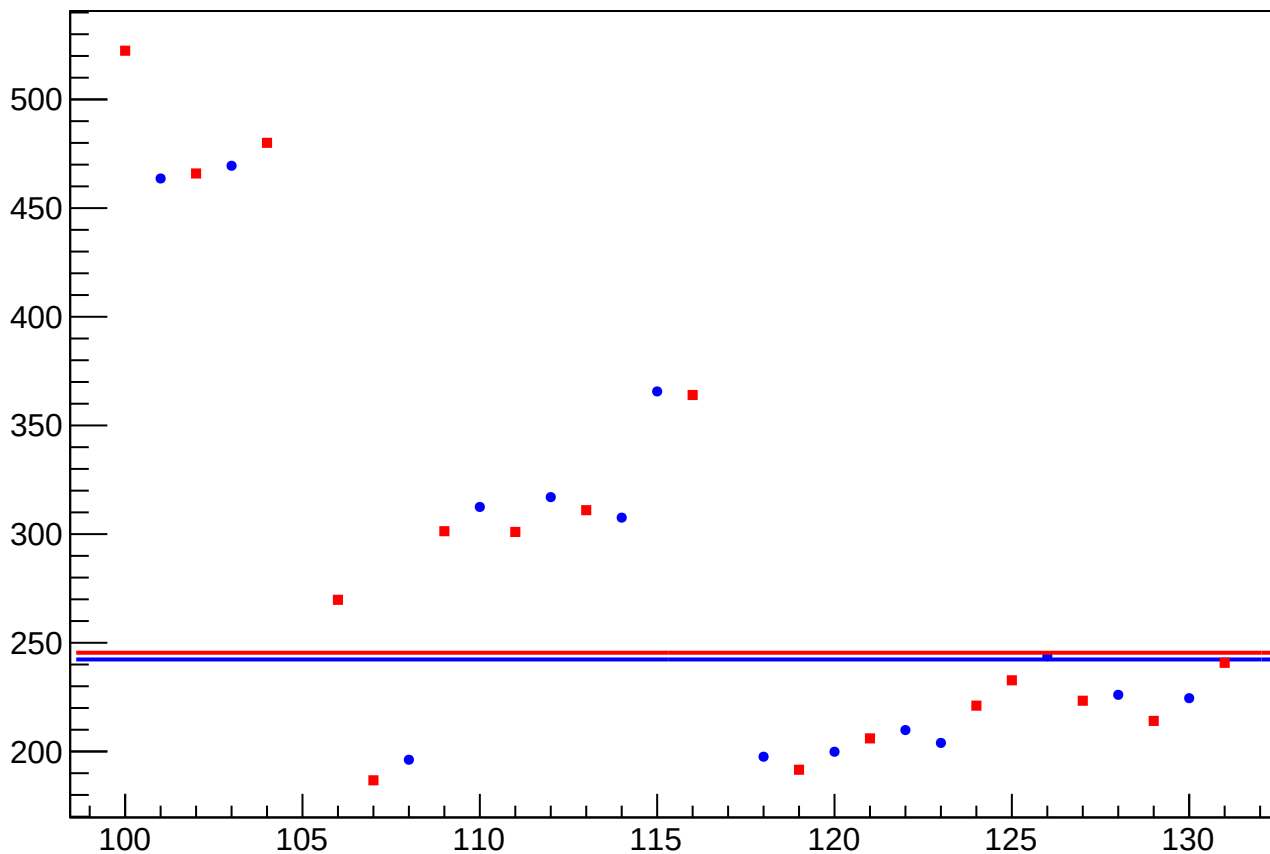
Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 140830.531 $\pm$ 0.106  $\chi^2$ /NDF: 751338937.6/15 All: 140911.138 $\pm$ 0.077  $\chi^2$ /NDF: 149878004.0/15

- 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: 242.330+/-0.079  $\chi^2/\text{NDF}$ : 807755.9/13

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

Right Out: 245.427+/-0.075  $\chi^2/\text{NDF}$ : 874963.1/15

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

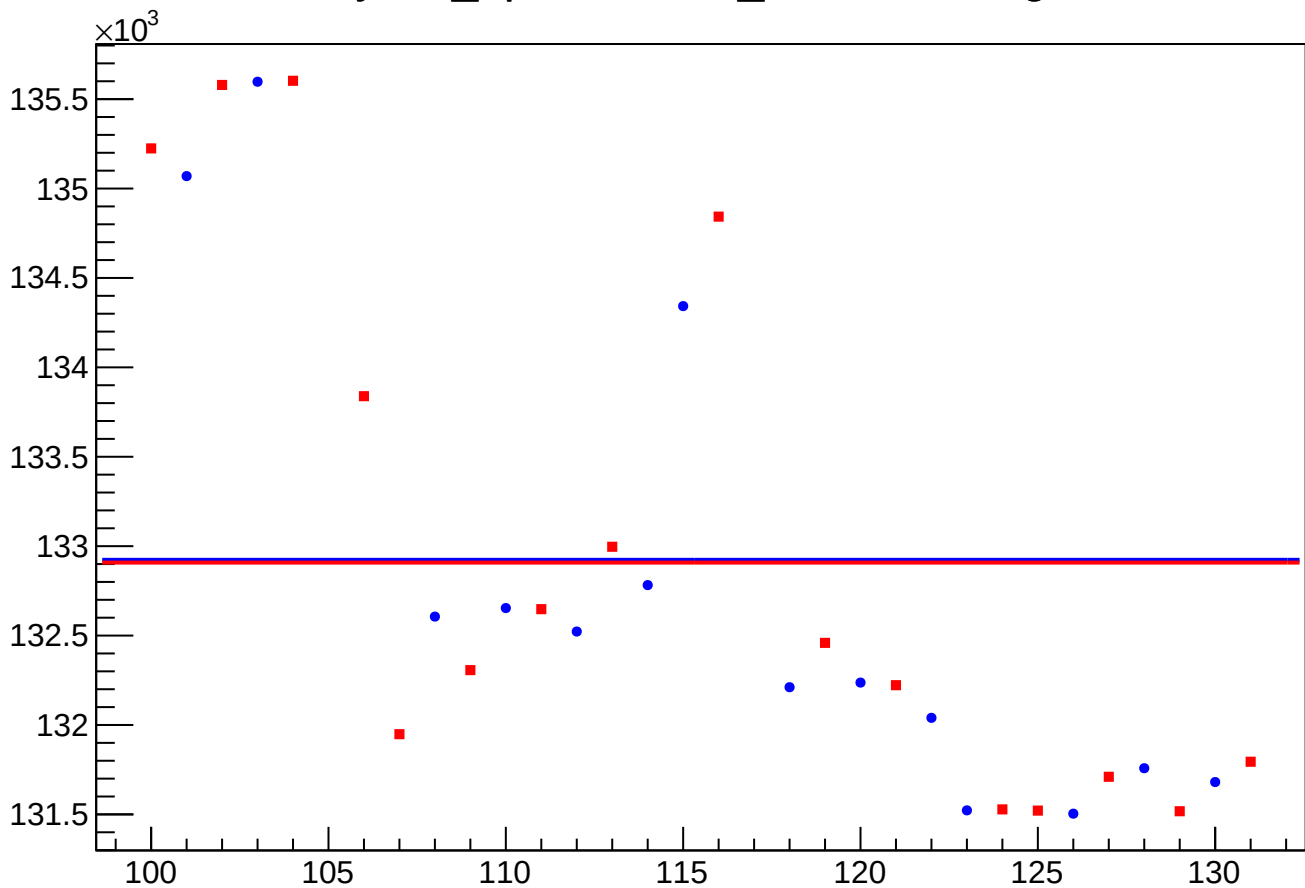
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 243.966+/-0.054  $\chi^2/\text{NDF}$ : 1683527.1/29

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



# yield\_bpm0r05WS\_mean vs Slug



Right In: 132923.621 $\pm$ 0.133  $\chi^2$ /NDF: 74465963.1/13

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

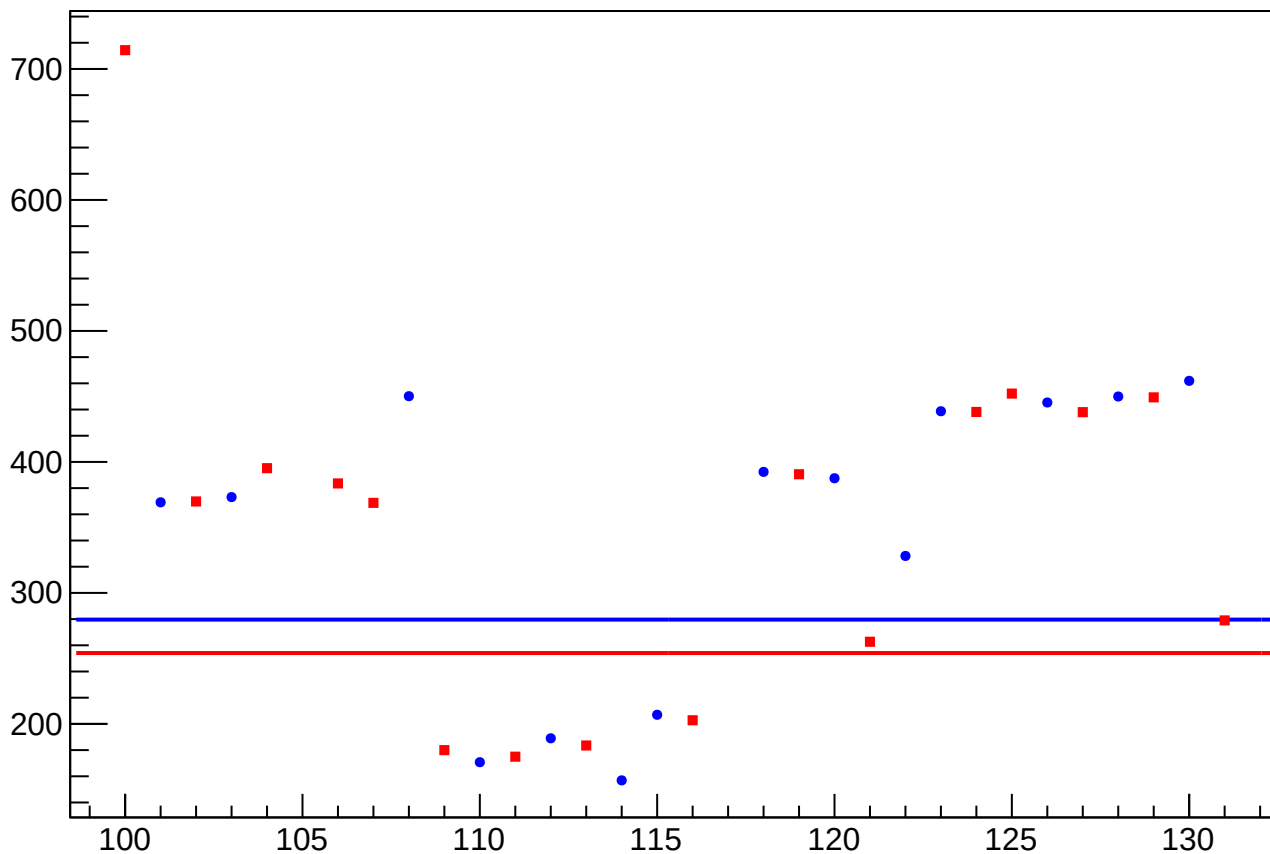
Right Out: 132908.220 $\pm$ 0.114  $\chi^2$ /NDF: 103513512.2/15

All: 132914.707 $\pm$ 0.087  $\chi^2$ /NDF: 177987192

- 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: 279.630 $\pm$ 0.094  $\chi^2$ /NDF: 1421867.5/13

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

Right Out: 254.110 $\pm$ 0.080  $\chi^2$ /NDF: 1501508.3/15

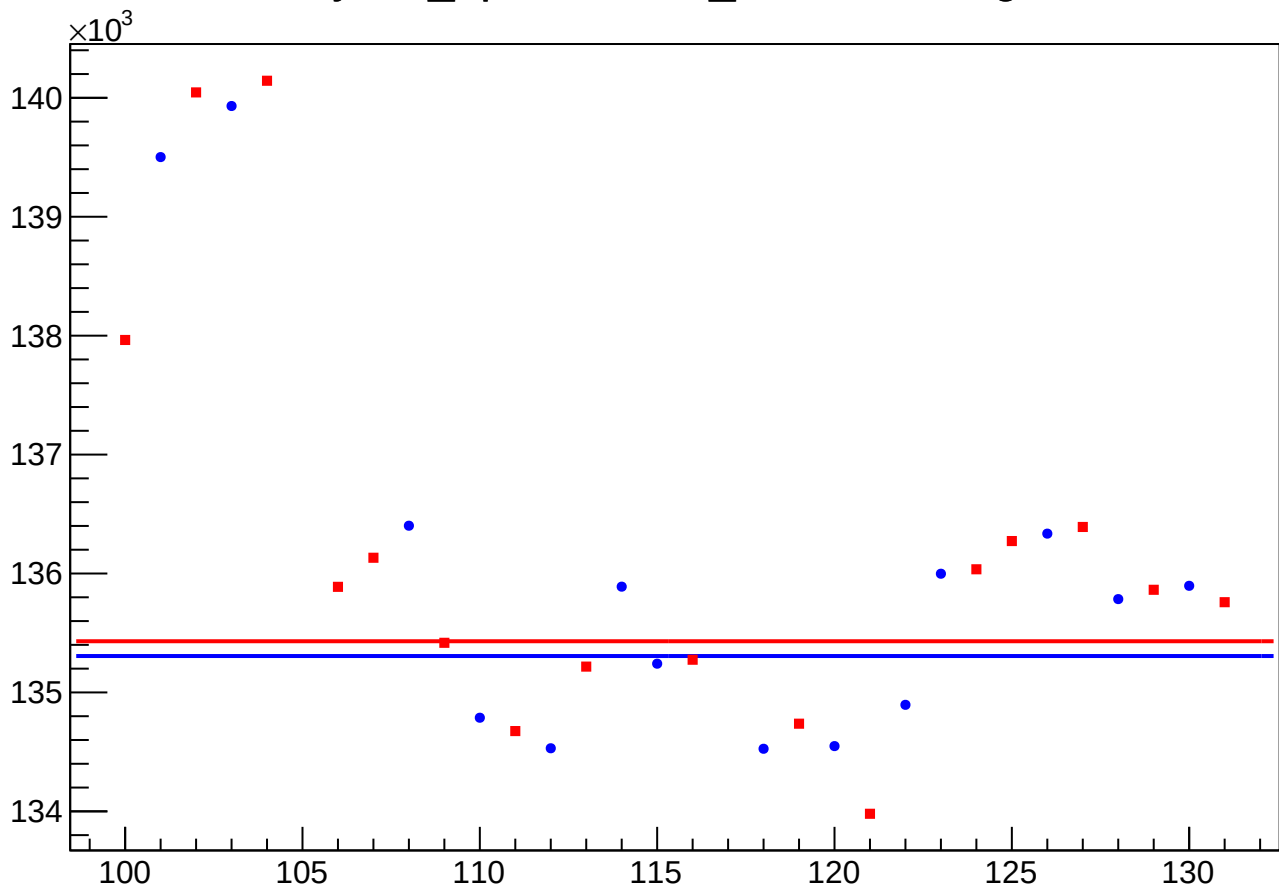
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 264.859 $\pm$ 0.061  $\chi^2$ /NDF: 2965747.2/29

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

# yield\_bpm0i02WS\_mean vs Slug



Right In: 135306.062 $\pm$ 0.060  $\chi^2$ /NDF: 295563043.8/13

+ 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

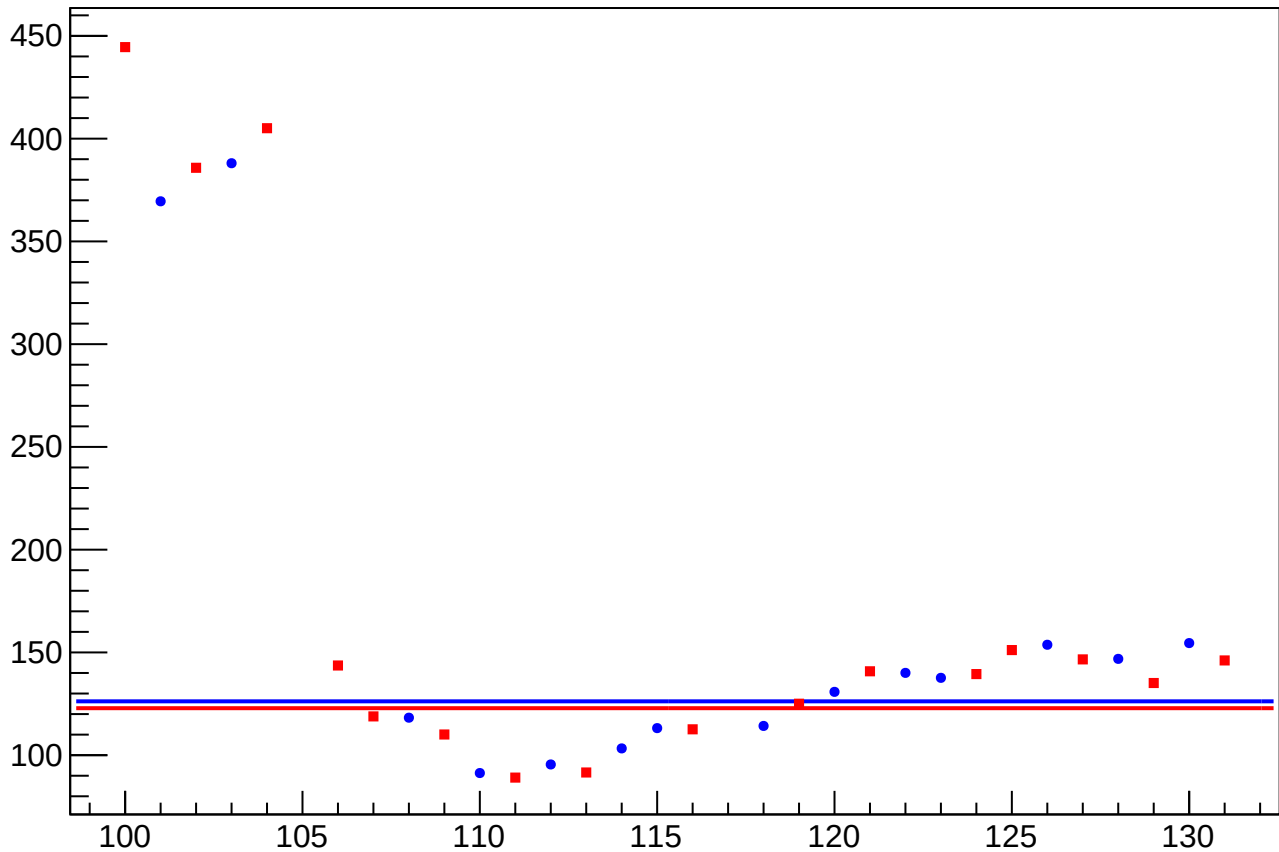
Right Out: 135430.412 $\pm$ 0.055  $\chi^2$ /NDF: 286360985.7/15

All: 135374.370 $\pm$ 0.041  $\chi^2$ /NDF: 584256105

- 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: 126.205 $\pm$ 0.043  $\chi^2$ /NDF: 1317751.6/13

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

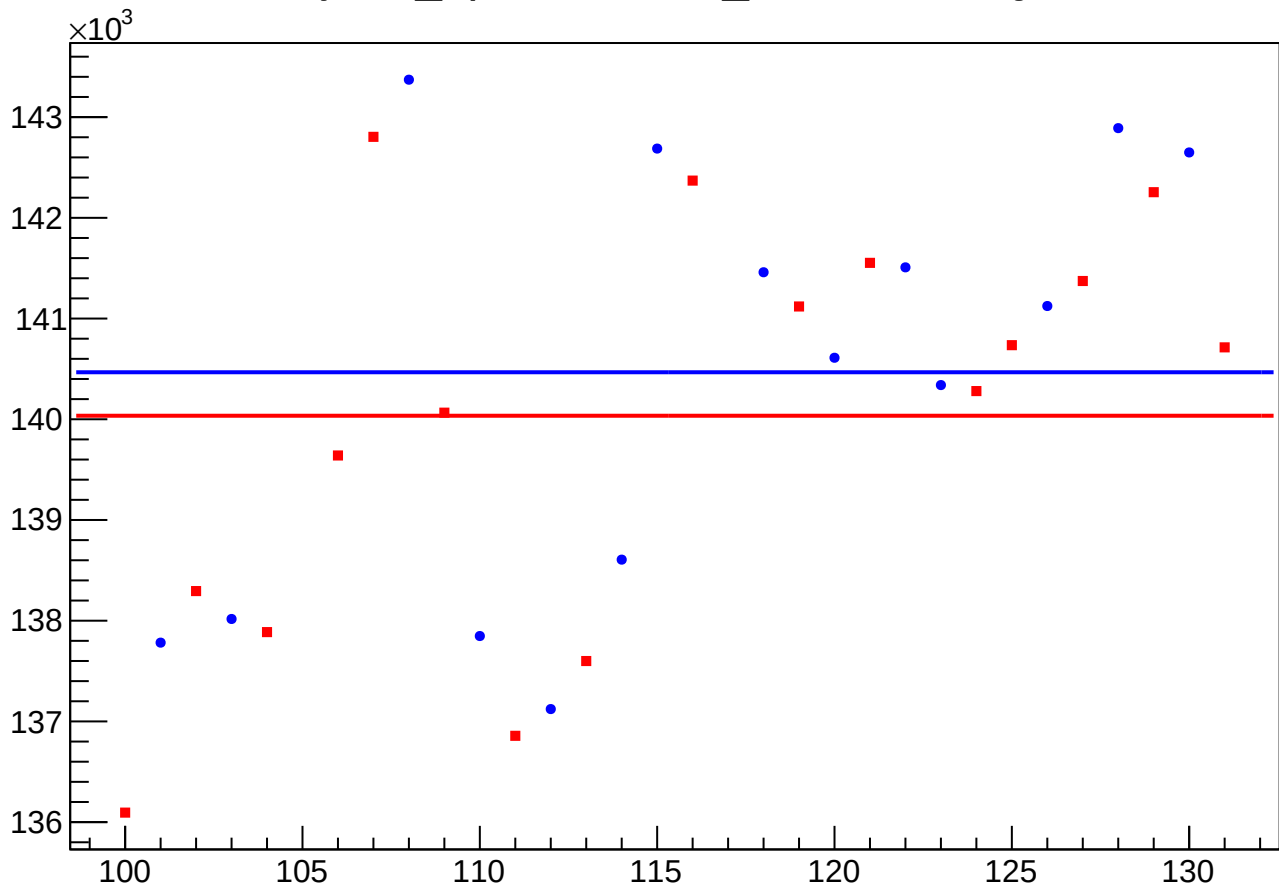
Right Out: 122.864 $\pm$ 0.039  $\chi^2$ /NDF: 1390142.7/15

All: 124.370 $\pm$ 0.029  $\chi^2$ /NDF: 2711261.0/29

- 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\_mean vs Slug



Right In: 140466.722 $\pm$ 0.069  $\chi^2$ /NDF: 987000462.5/13

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

Right Out: 140035.036 $\pm$ 0.063  $\chi^2$ /NDF: 1001495955.1/15

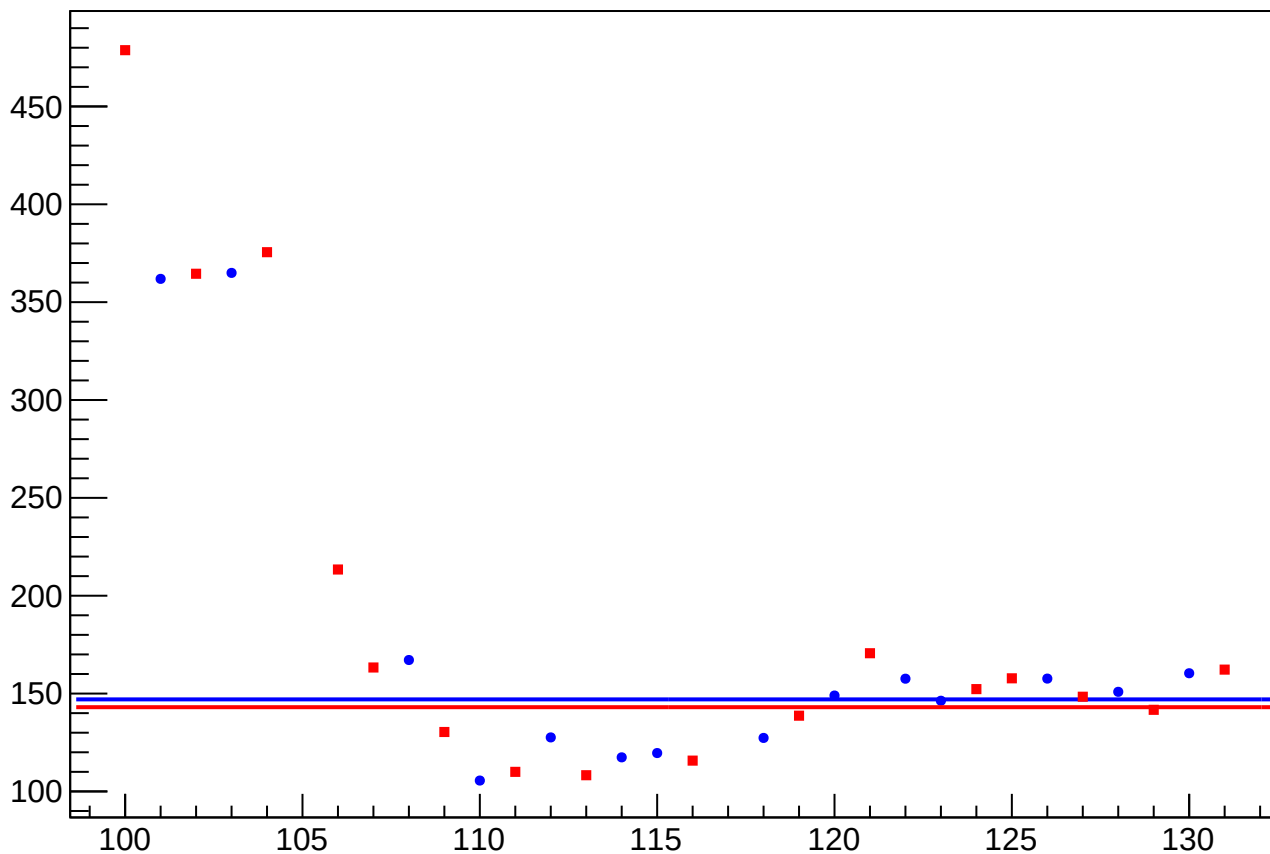
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

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

All: 140230.124 $\pm$ 0.047  $\chi^2$ /NDF: 200983879

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

# yield\_bpm0i02aWS\_rms vs Slug



Right In: 147.030+/-0.049  $\chi^2/\text{NDF}$ : 1016350.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 143.040+/-0.044  $\chi^2/\text{NDF}$ : 1144813.0/15

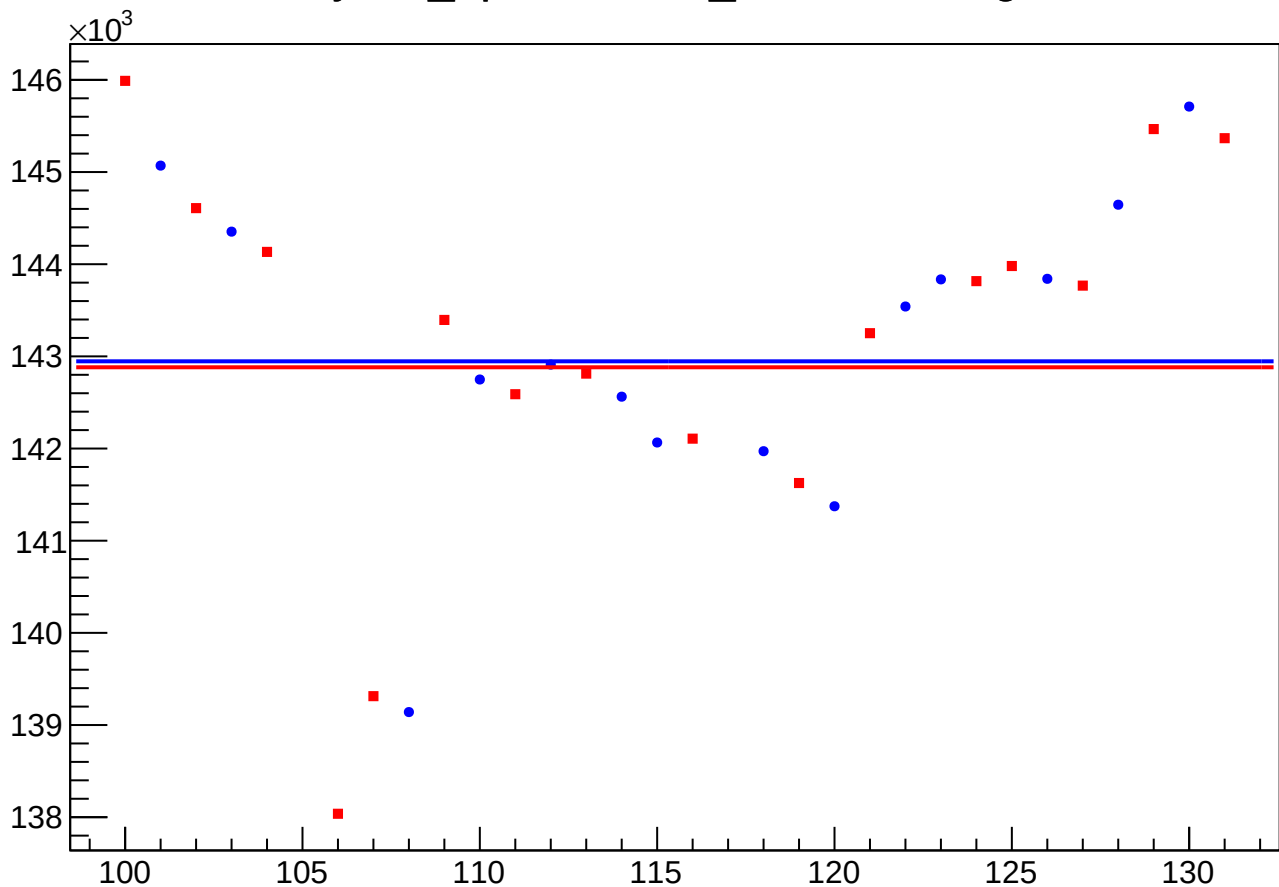
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 144.843+/-0.033  $\chi^2/\text{NDF}$ : 2164808.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05WS\_mean vs Slug



Right In: 142946.396 $\pm$ 0.073  $\chi^2$ /NDF: 549487321.2/13

+ 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

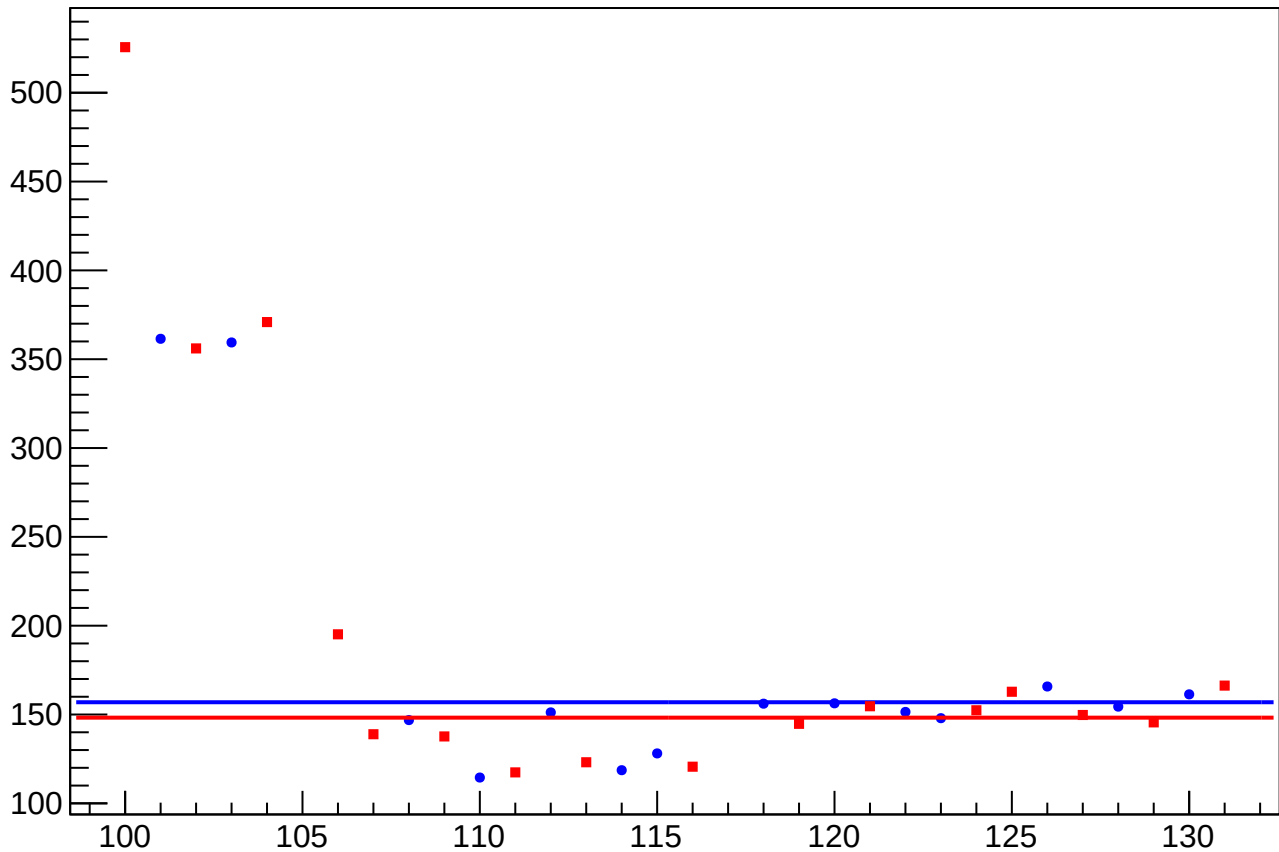
Right Out: 142881.579 $\pm$ 0.065  $\chi^2$ /NDF: 698244336.9/15

All: 142909.869 $\pm$ 0.048  $\chi^2$ /NDF: 124817122

- 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: 156.910 $\pm$ 0.052  $\chi^2$ /NDF: 867412.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 148.232 $\pm$ 0.046  $\chi^2$ /NDF: 967318.8/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

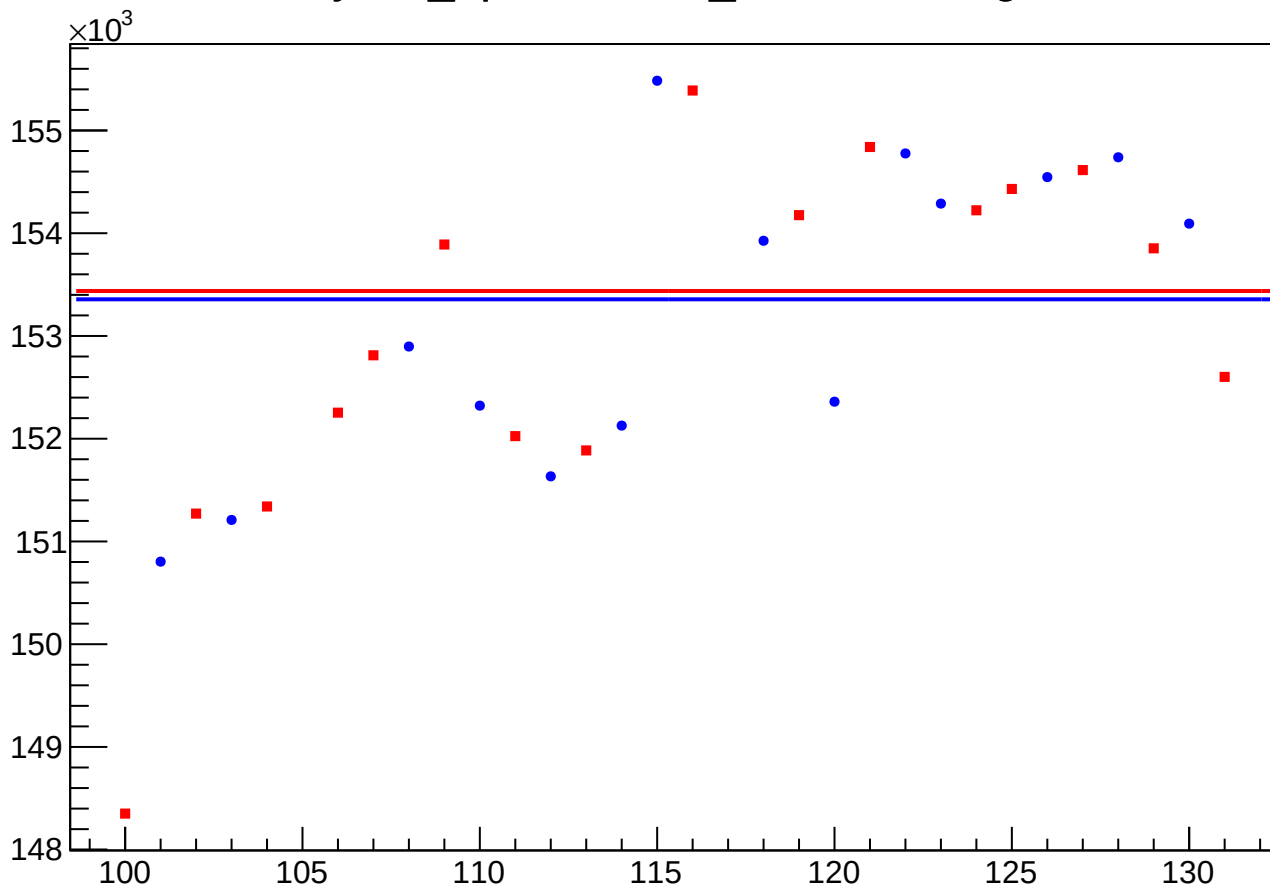
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 152.020 $\pm$ 0.034  $\chi^2$ /NDF: 1850489.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm0i07WS\_mean vs Slug



Right In: 153356.592 $\pm$ 0.084  $\chi^2$ /NDF: 234341843.3/13

+ 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

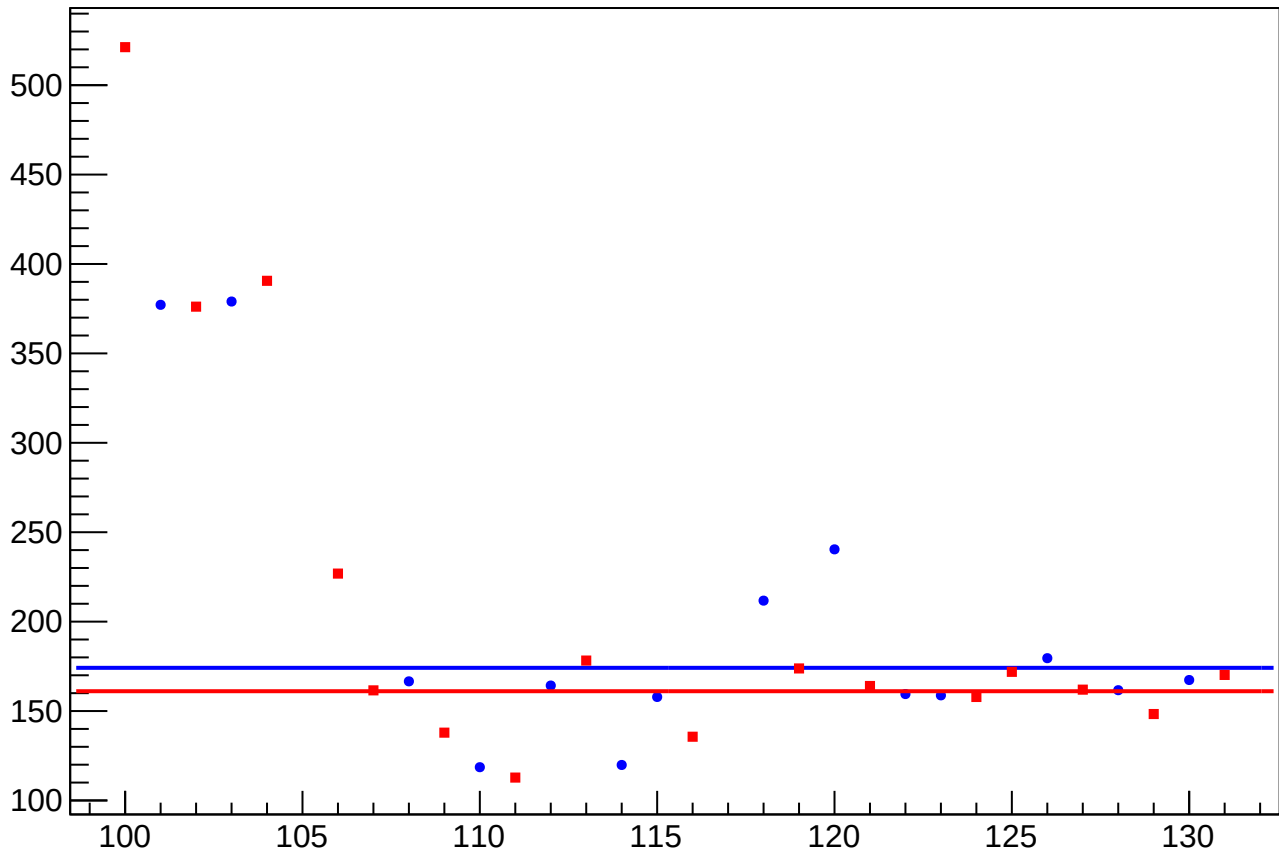
Right Out: 153437.651 $\pm$ 0.072  $\chi^2$ /NDF: 270739631.7/15

All: 153403.432 $\pm$ 0.054  $\chi^2$ /NDF: 505622260

- 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: 174.166+/-0.059  $\chi^2/\text{NDF}$ : 934973.4/13

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

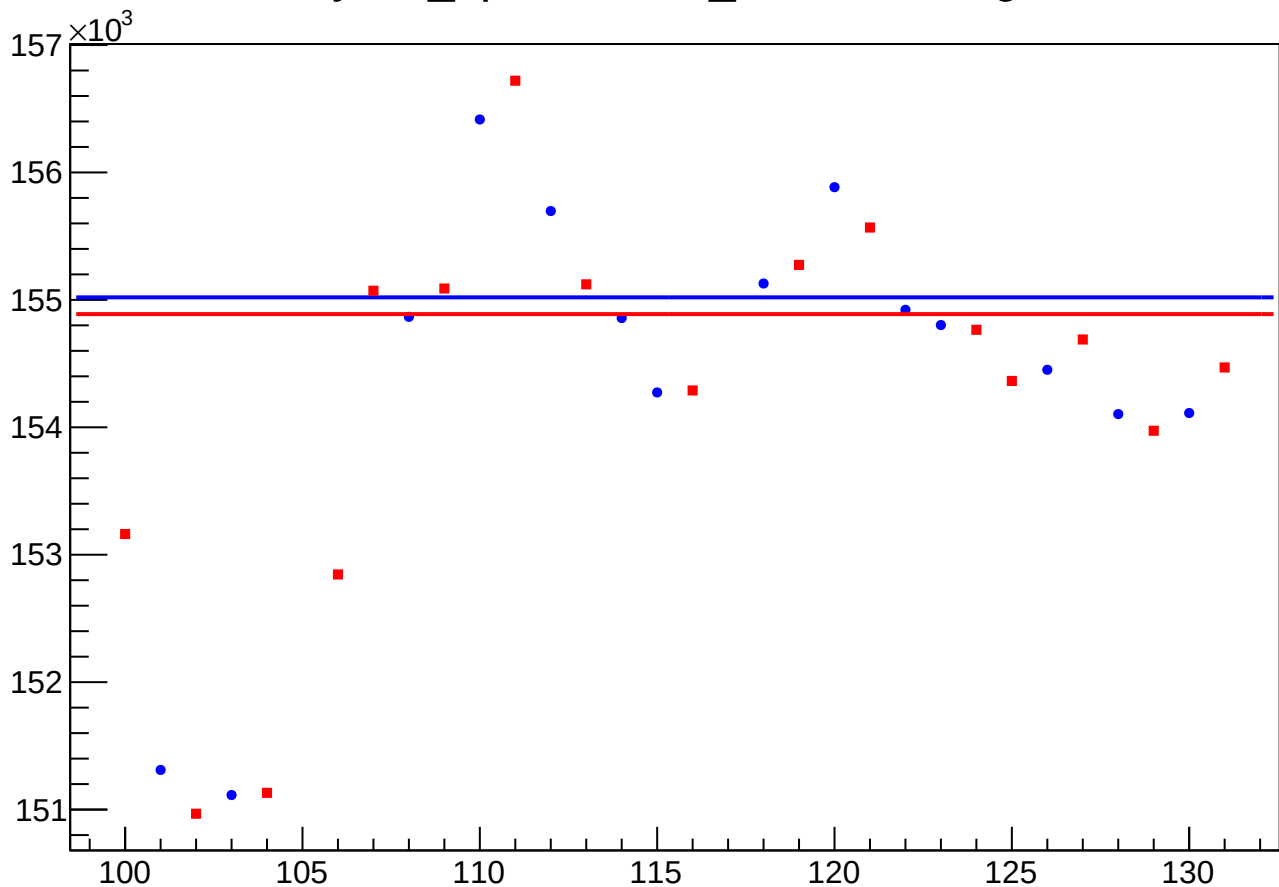
Right Out: 161.088+/-0.051  $\chi^2/\text{NDF}$ : 1015872.1/15

All: 166.609+/-0.038  $\chi^2/\text{NDF}$ : 1979002.2/29

- 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\_bpm1i02WS\_mean vs Slug



Right In: 155019.728 $\pm$ 0.073  $\chi^2$ /NDF: 204812356.9/13

+ 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

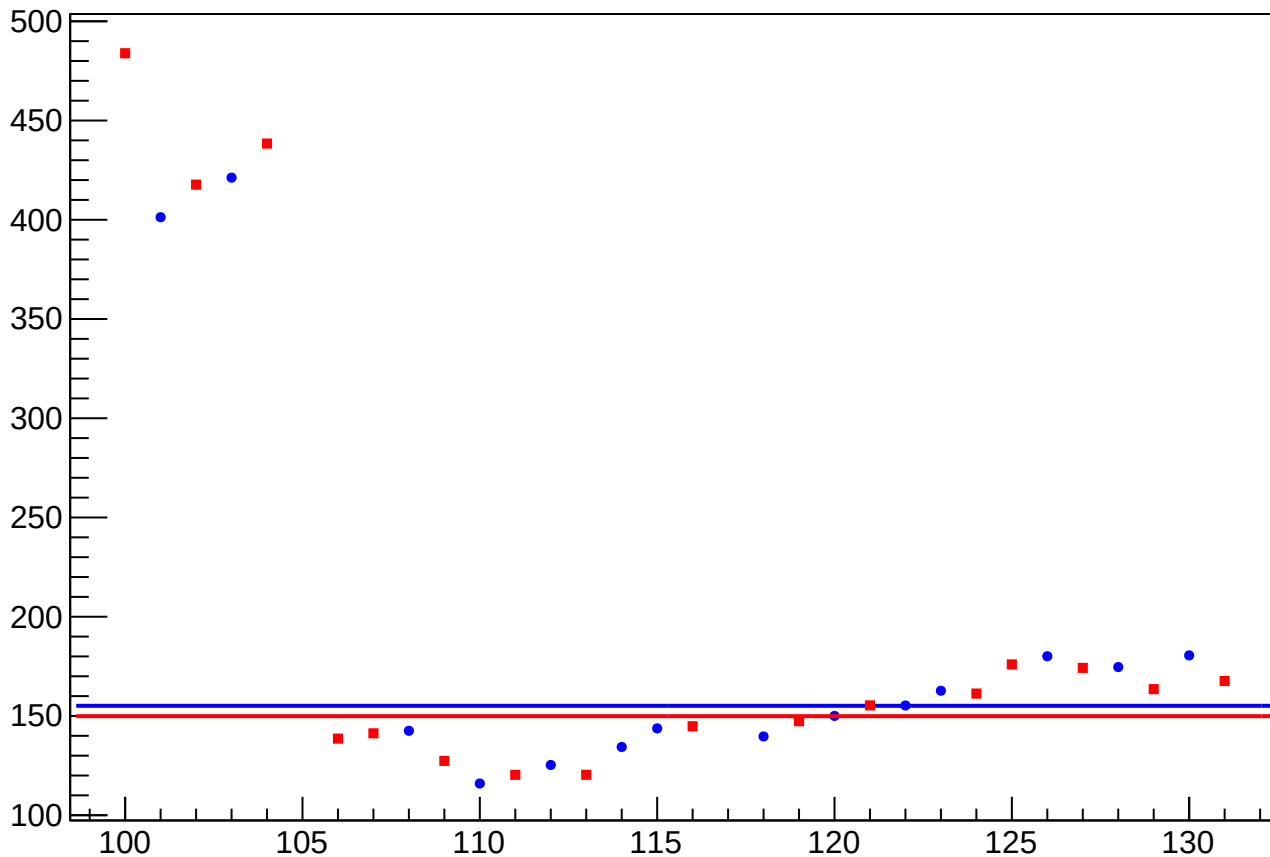
All: 154946.633 $\pm$ 0.049  $\chi^2$ /NDF: 489288115

Right Out: 154888.308 $\pm$ 0.065  $\chi^2$ /NDF: 282663349.1/15

- 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: 155.121+/-0.051  $\chi^2/\text{NDF}$ : 1089525.4/13

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

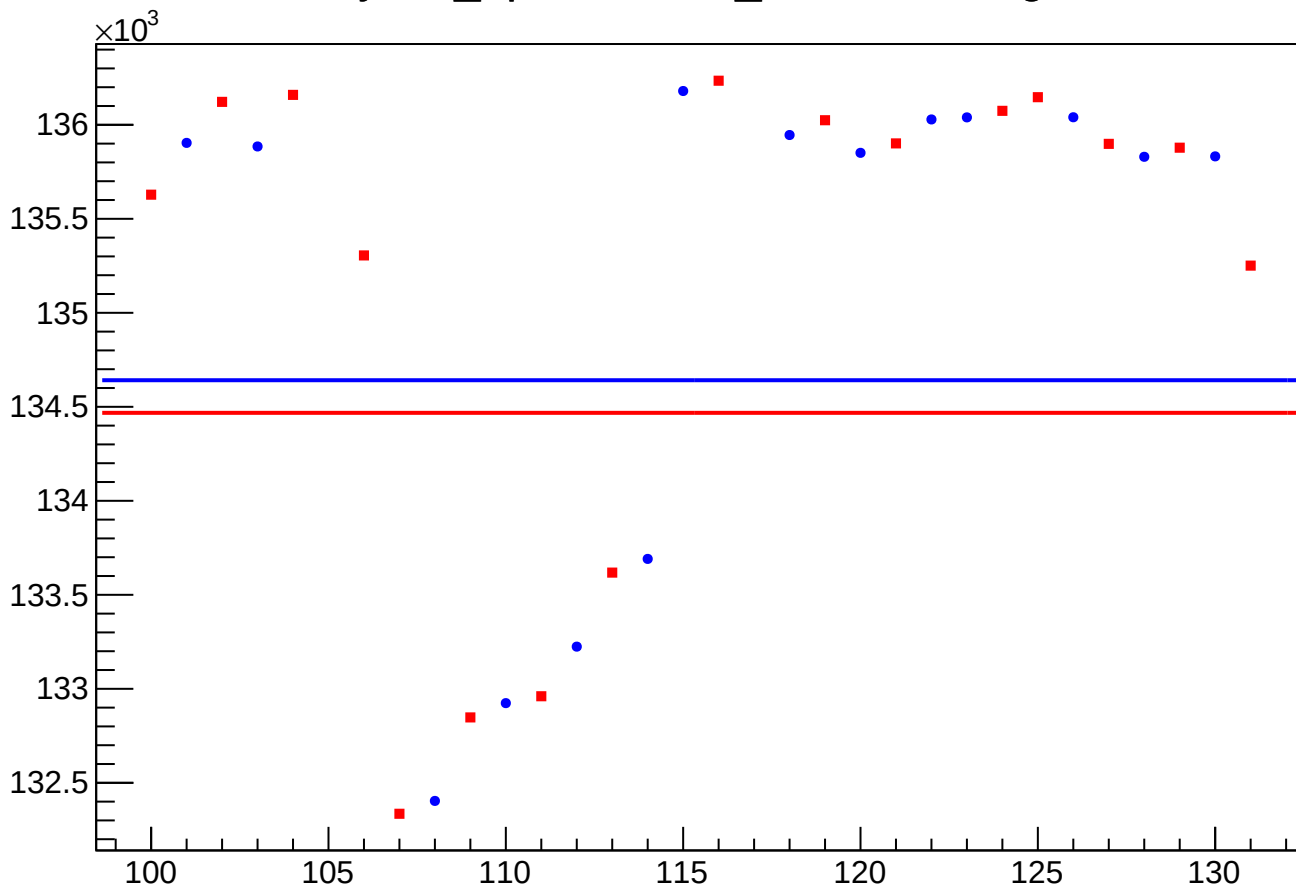
Right Out: 149.896+/-0.046  $\chi^2/\text{NDF}$ : 1128743.4/15

All: 152.215+/-0.034  $\chi^2/\text{NDF}$ : 2223999.3/29

- 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\_bpm1i04WS\_mean vs Slug



Right In: 134641.416 $\pm$ 0.055  $\chi^2$ /NDF: 716389859.9/13

+ 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

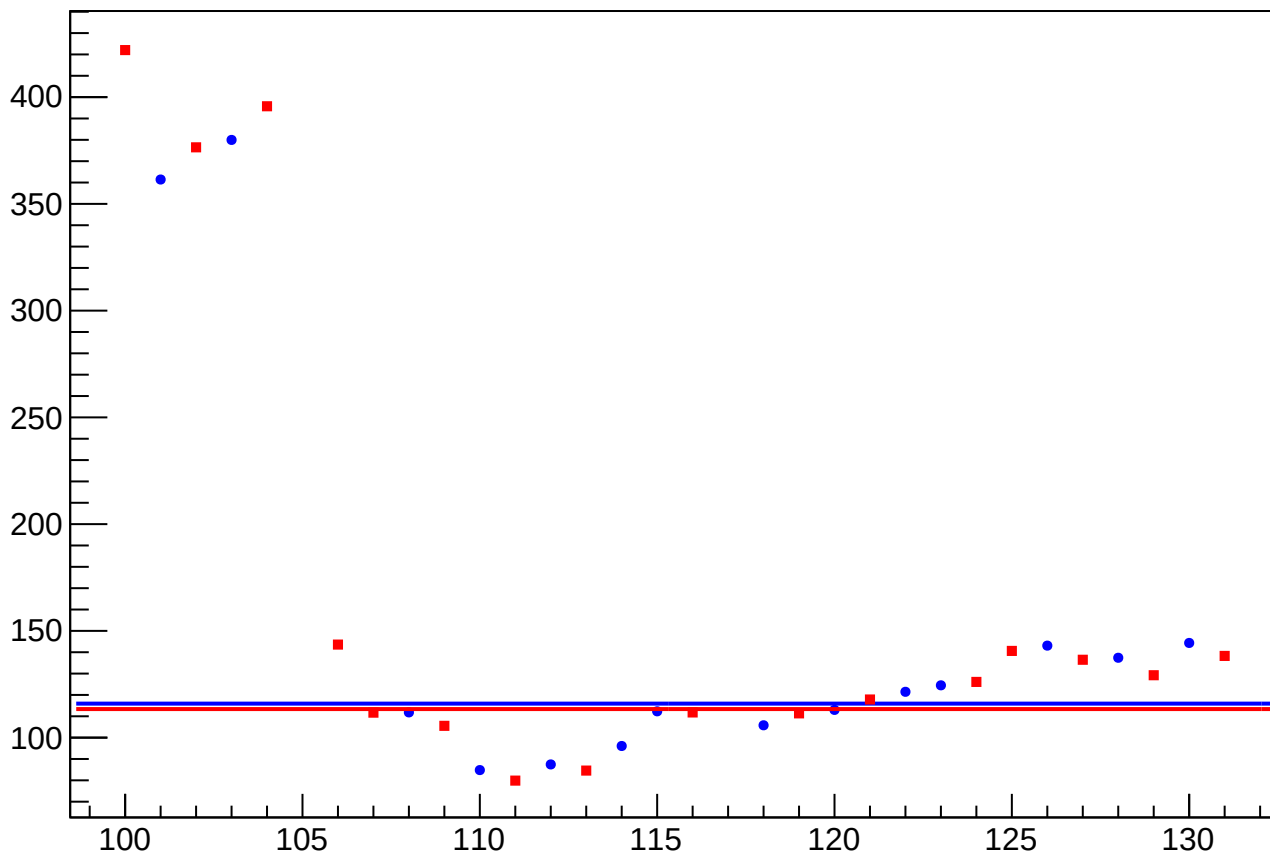
All: 134546.515 $\pm$ 0.037  $\chi^2$ /NDF: 156955070

Right Out: 134467.985 $\pm$ 0.050  $\chi^2$ /NDF: 847805381.1/15

- 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: 115.929+/-0.039  $\chi^2/\text{NDF}$ : 1375396.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 113.379+/-0.036  $\chi^2/\text{NDF}$ : 1468649.4/15

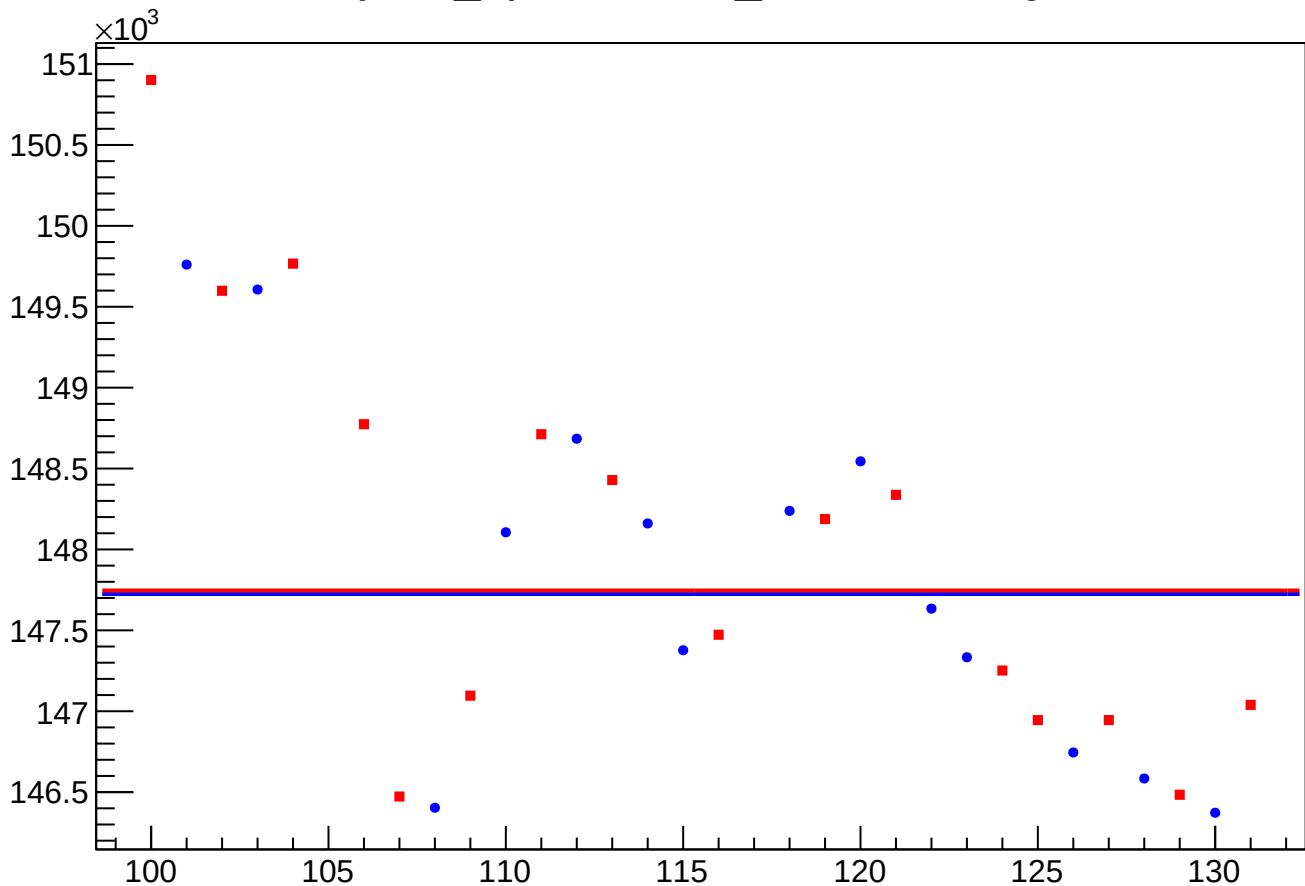
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 114.534+/-0.026  $\chi^2/\text{NDF}$ : 2846362.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06WS\_mean vs Slug



Right In: 147724.398 $\pm$ 0.070  $\chi^2$ /NDF: 180261567.9/13

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

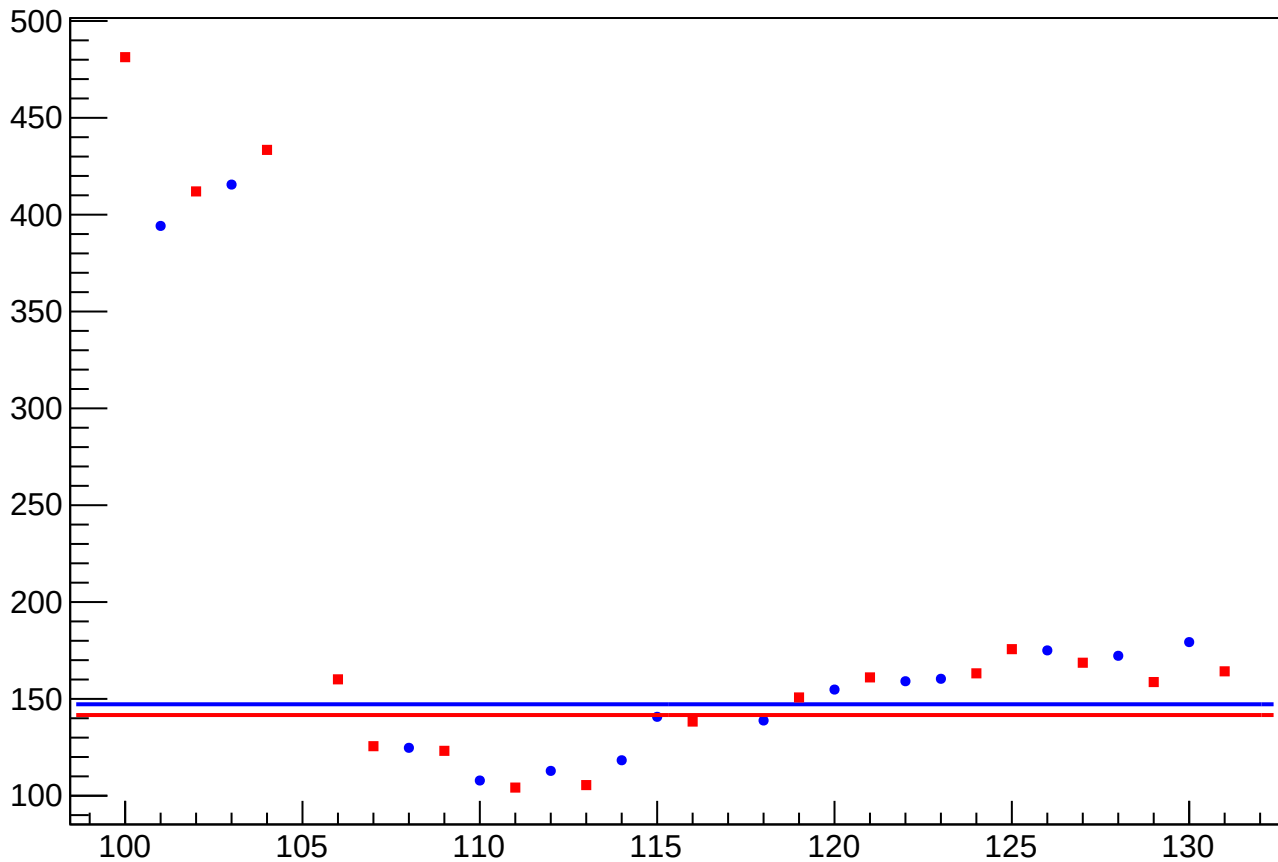
Right Out: 147746.108 $\pm$ 0.062  $\chi^2$ /NDF: 199408482.9/15

All: 147736.463 $\pm$ 0.046  $\chi^2$ /NDF: 379724036

- 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: 147.221+/-0.049  $\chi^2/\text{NDF}$ : 1217941.6/13

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: 141.665+/-0.044  $\chi^2/\text{NDF}$ : 1324715.9/15

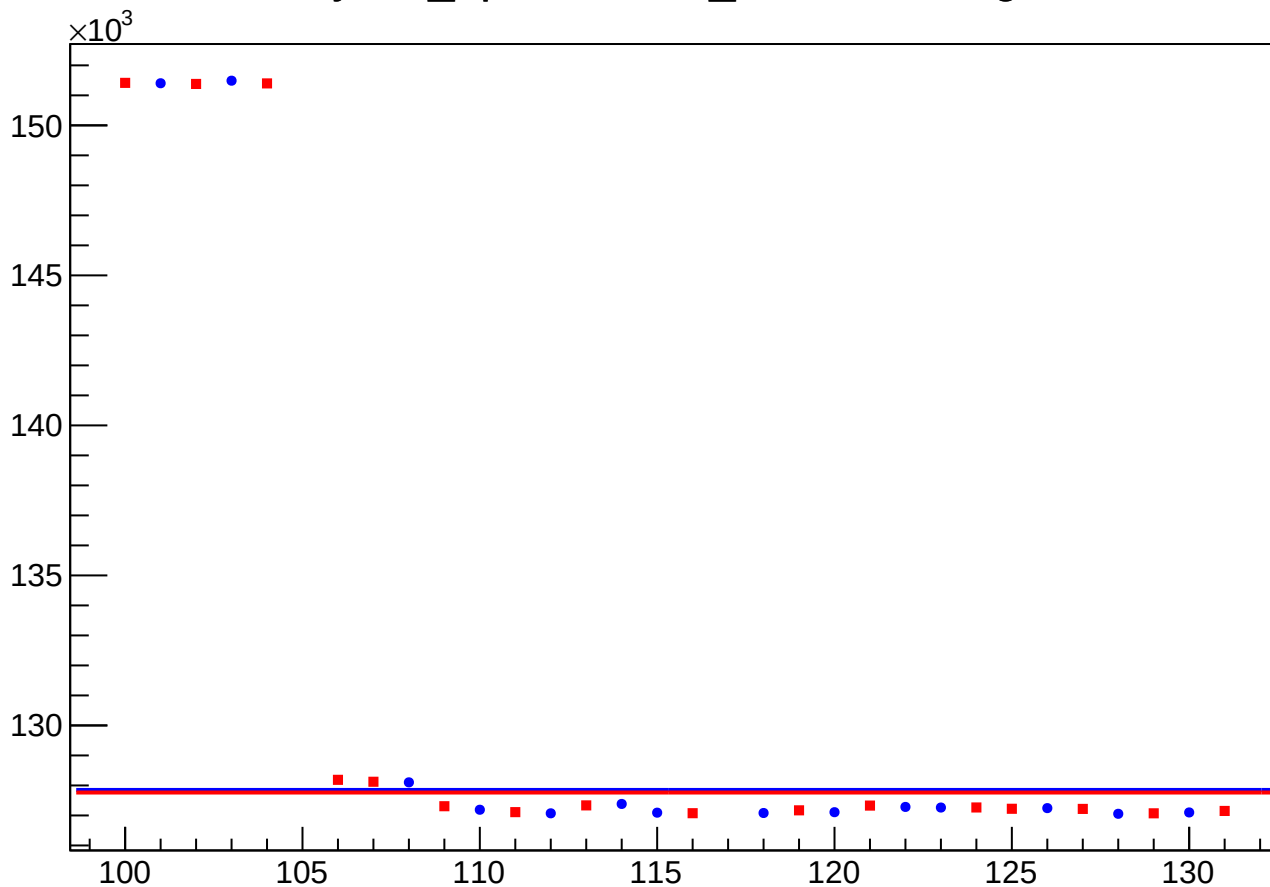
All: 144.133+/-0.033  $\chi^2/\text{NDF}$ : 2549729.0/29

- 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\_bpm2i01WS\_mean vs Slug



Right In: 127850.123 $\pm$ 0.059  $\chi^2$ /NDF: 4193756895.0/13

+ 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

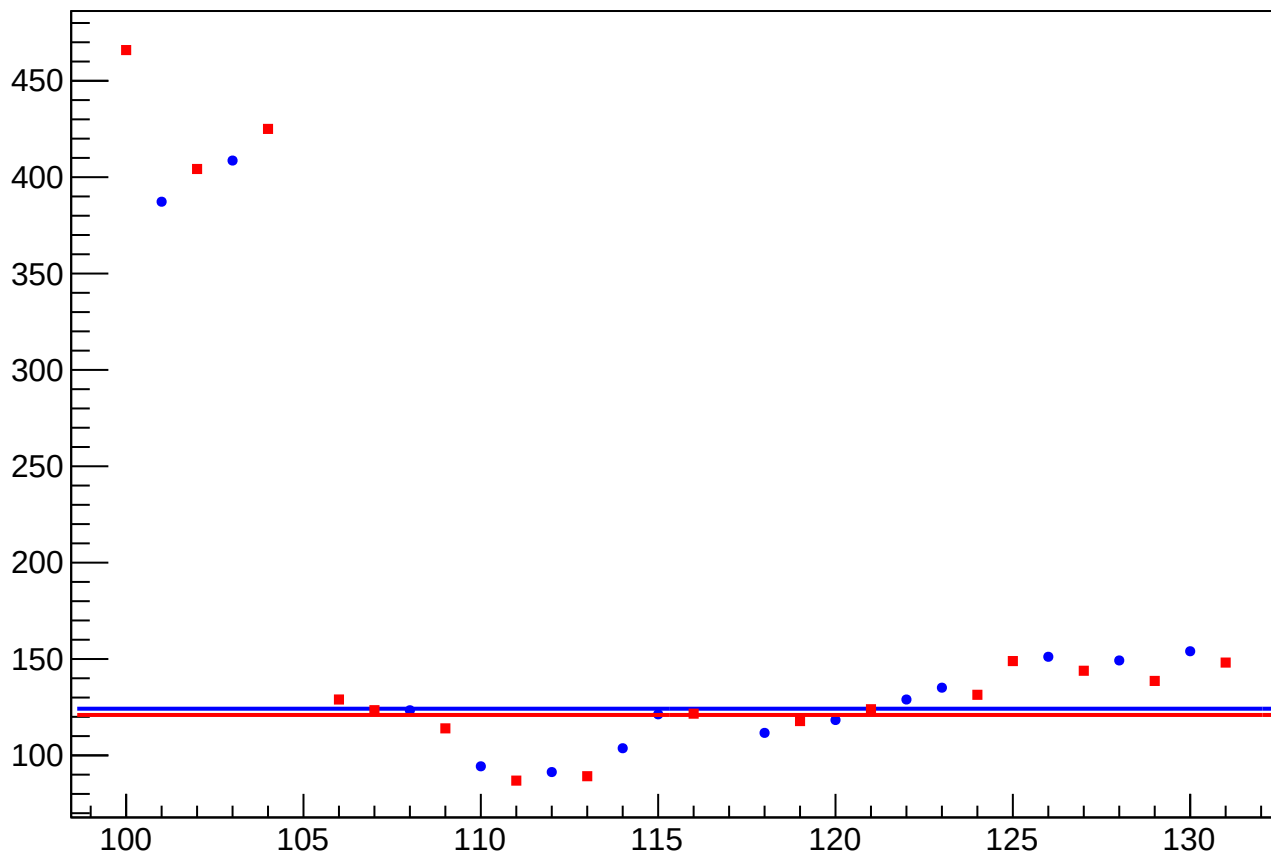
All: 127802.573 $\pm$ 0.040  $\chi^2$ /NDF: 785926428

Right Out: 127764.140 $\pm$ 0.053  $\chi^2$ /NDF: 3664348858.3/15

- 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: 124.212 $\pm$ 0.042  $\chi^2$ /NDF: 1372943.1/13

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

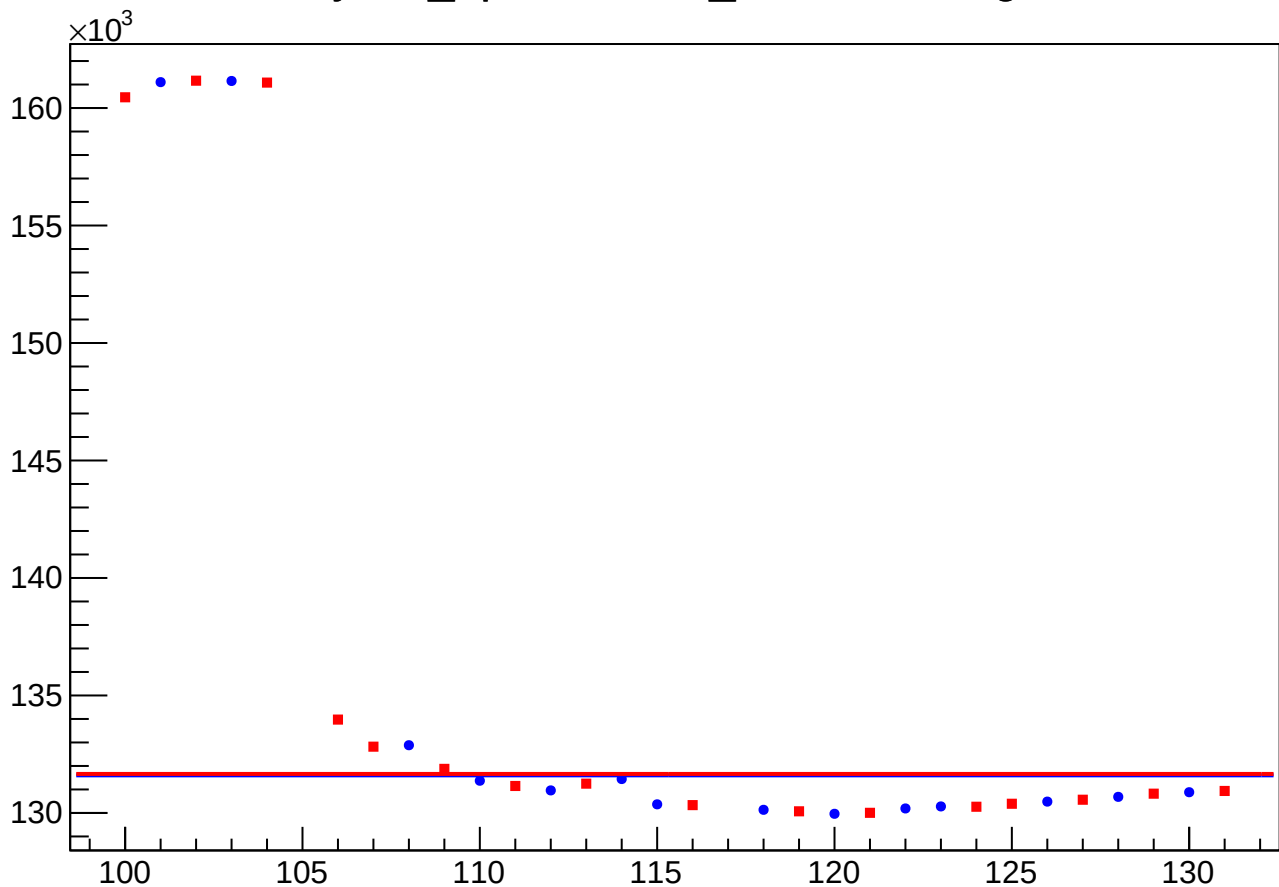
Right Out: 120.971 $\pm$ 0.038  $\chi^2$ /NDF: 1442039.8/15

All: 122.420 $\pm$ 0.028  $\chi^2$ /NDF: 2818274.8/29

- 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\_mean vs Slug



Right In: 131600.799 $\pm$ 0.062  $\chi^2$ /NDF: 6017024272.9/13

+ 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

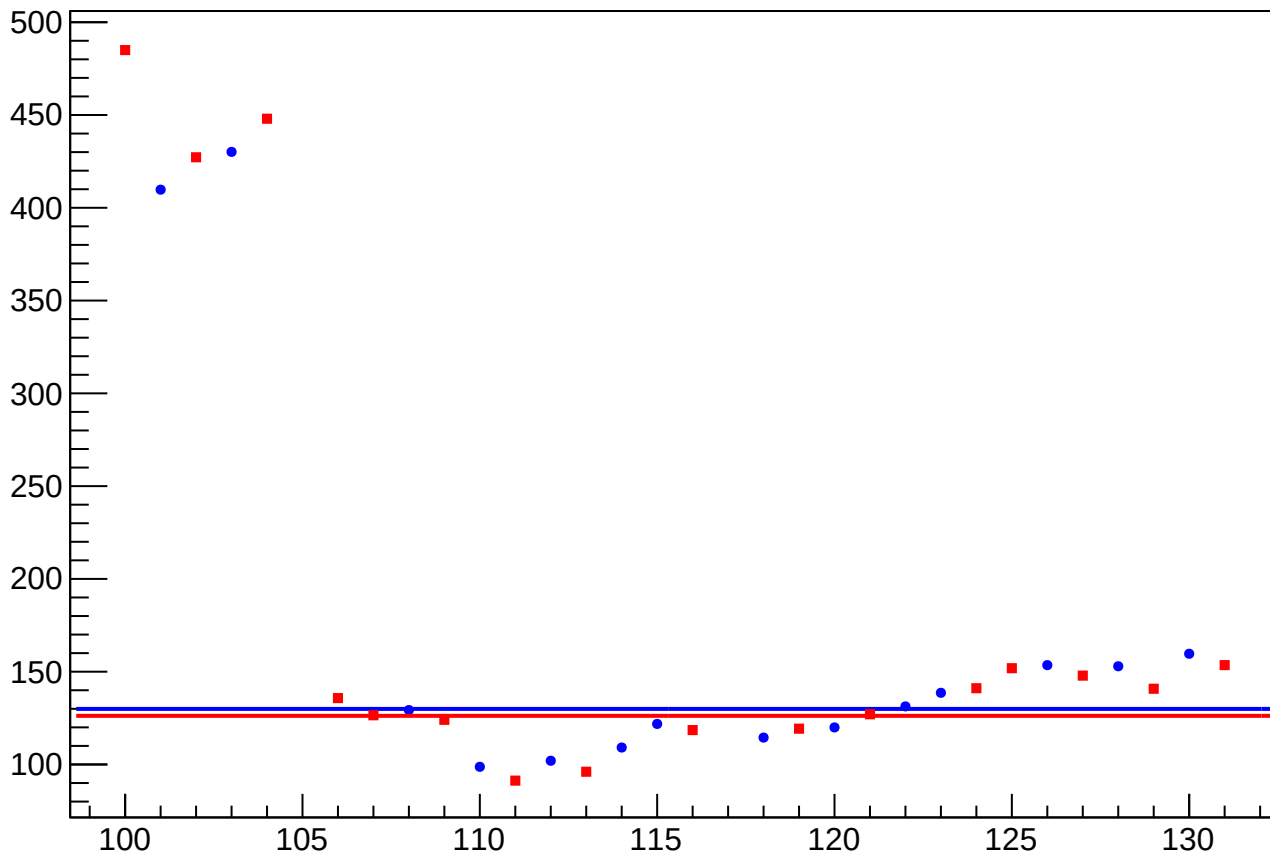
All: 131633.841 $\pm$ 0.041  $\chi^2$ /NDF: 113905295

Right Out: 131660.444 $\pm$ 0.056  $\chi^2$ /NDF: 5372992756.5/15

- 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: 129.947 $\pm$ 0.044  $\chi^2$ /NDF: 1331010.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 126.214 $\pm$ 0.039  $\chi^2$ /NDF: 1410426.7/15

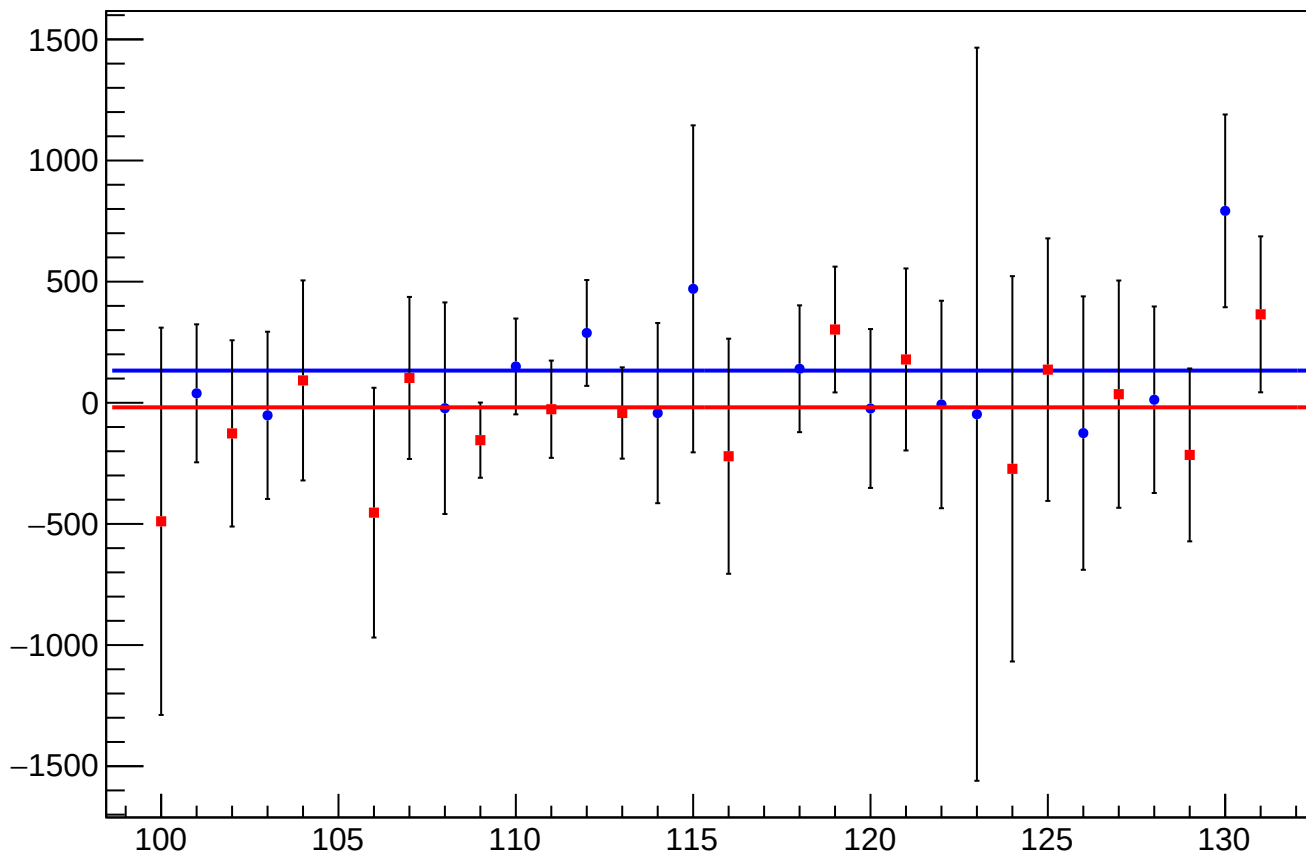
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 127.879 $\pm$ 0.029  $\chi^2$ /NDF: 2745451.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_ds\_mean vs Slug



Right In: 132.941 $\pm$ 88.417  $\chi^2$ /NDF: 4.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -18.744 $\pm$ 75.677  $\chi^2$ /NDF: 6.0/15

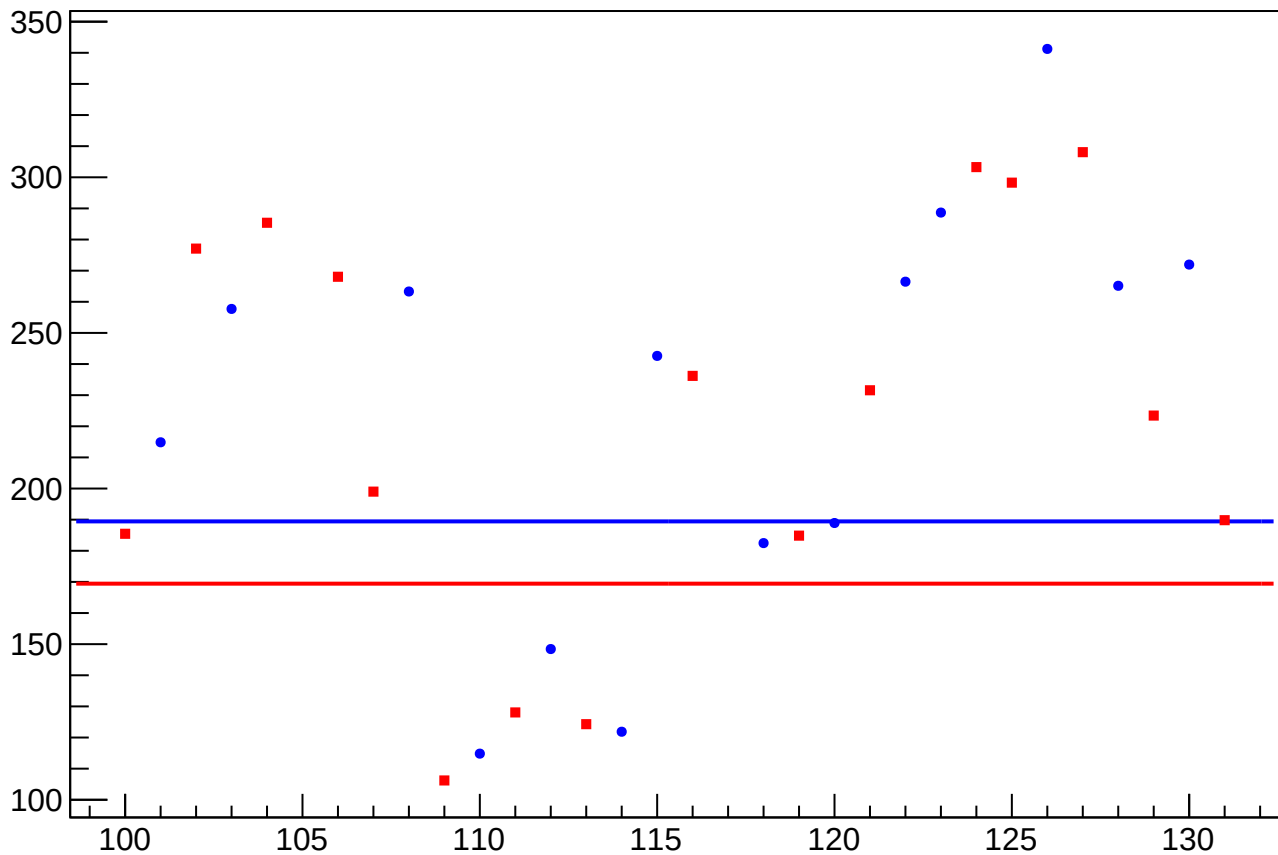
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 45.392 $\pm$ 57.493  $\chi^2$ /NDF: 12.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_ds\_rms vs Slug



Right In: 189.444 $\pm$ 0.063  $\chi^2$ /NDF: 967890.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 169.436 $\pm$ 0.054  $\chi^2$ /NDF: 1433892.7/15

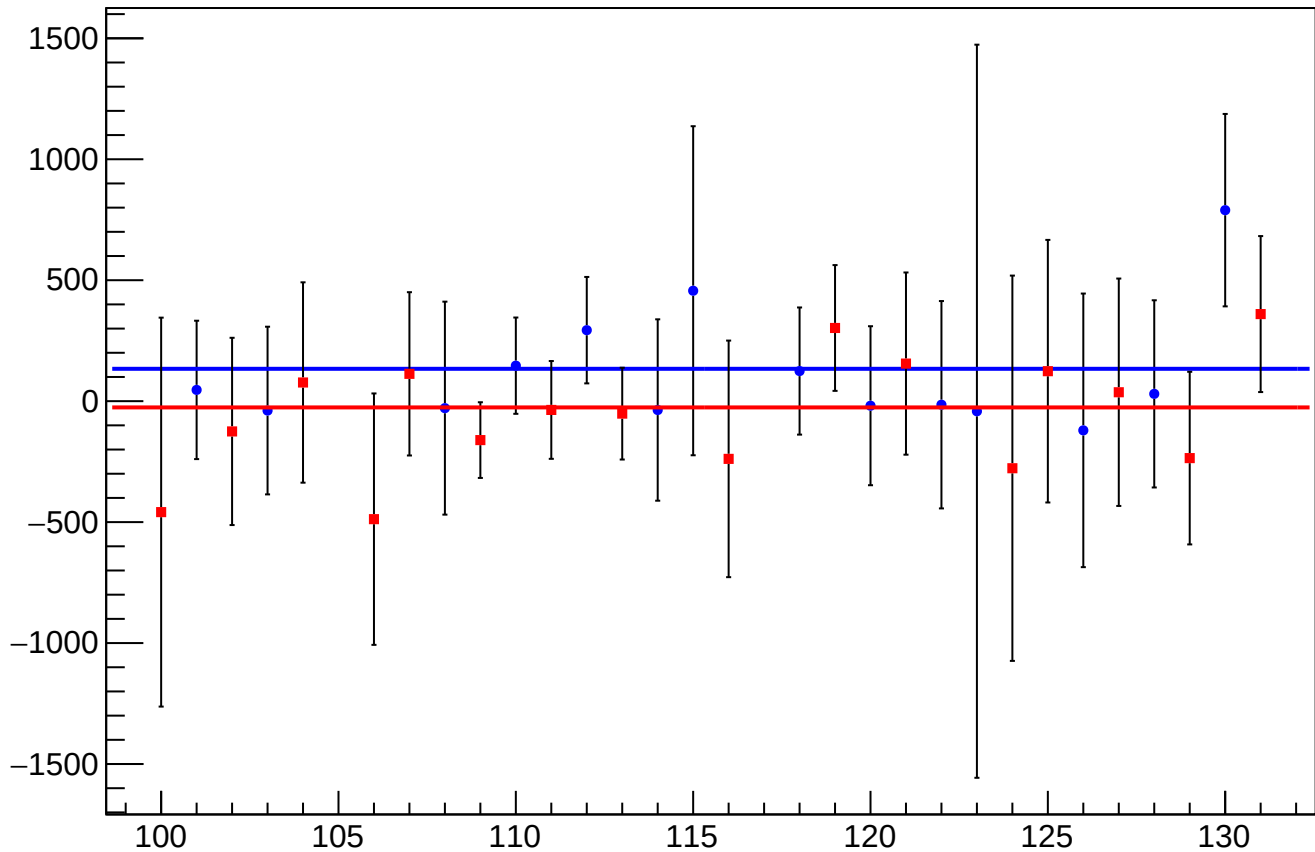
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 177.896 $\pm$ 0.041  $\chi^2$ /NDF: 2460894.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_ds3\_mean vs Slug



Right In: 133.747 $\pm$ 88.862  $\chi^2$ /NDF: 4.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -25.864 $\pm$ 76.109  $\chi^2$ /NDF: 6.1/15

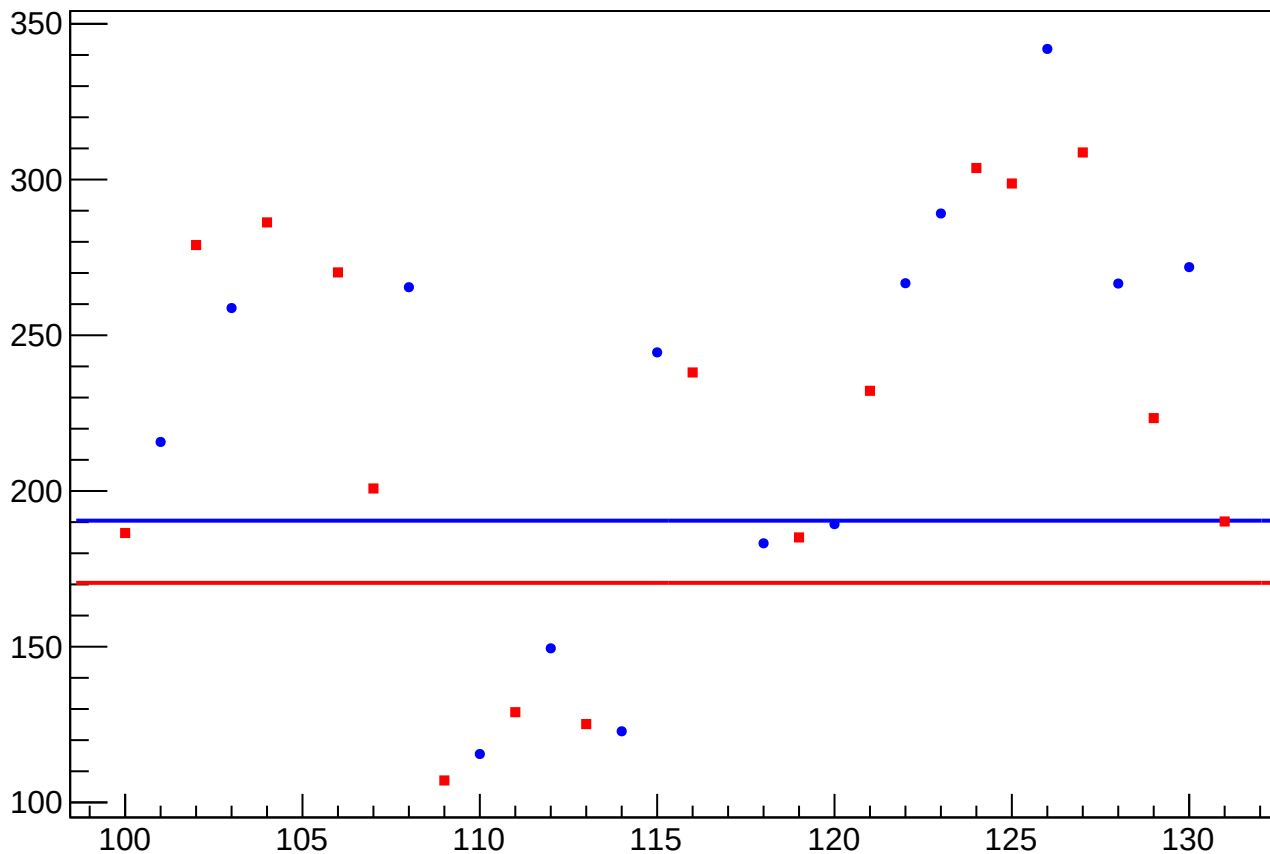
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 41.676 $\pm$ 57.805  $\chi^2$ /NDF: 12.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_ds3\_rms vs Slug



Right In: 190.475+/-0.063  $\chi^2/\text{NDF}$ : 959841.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 170.505+/-0.054  $\chi^2/\text{NDF}$ : 1421383.7/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

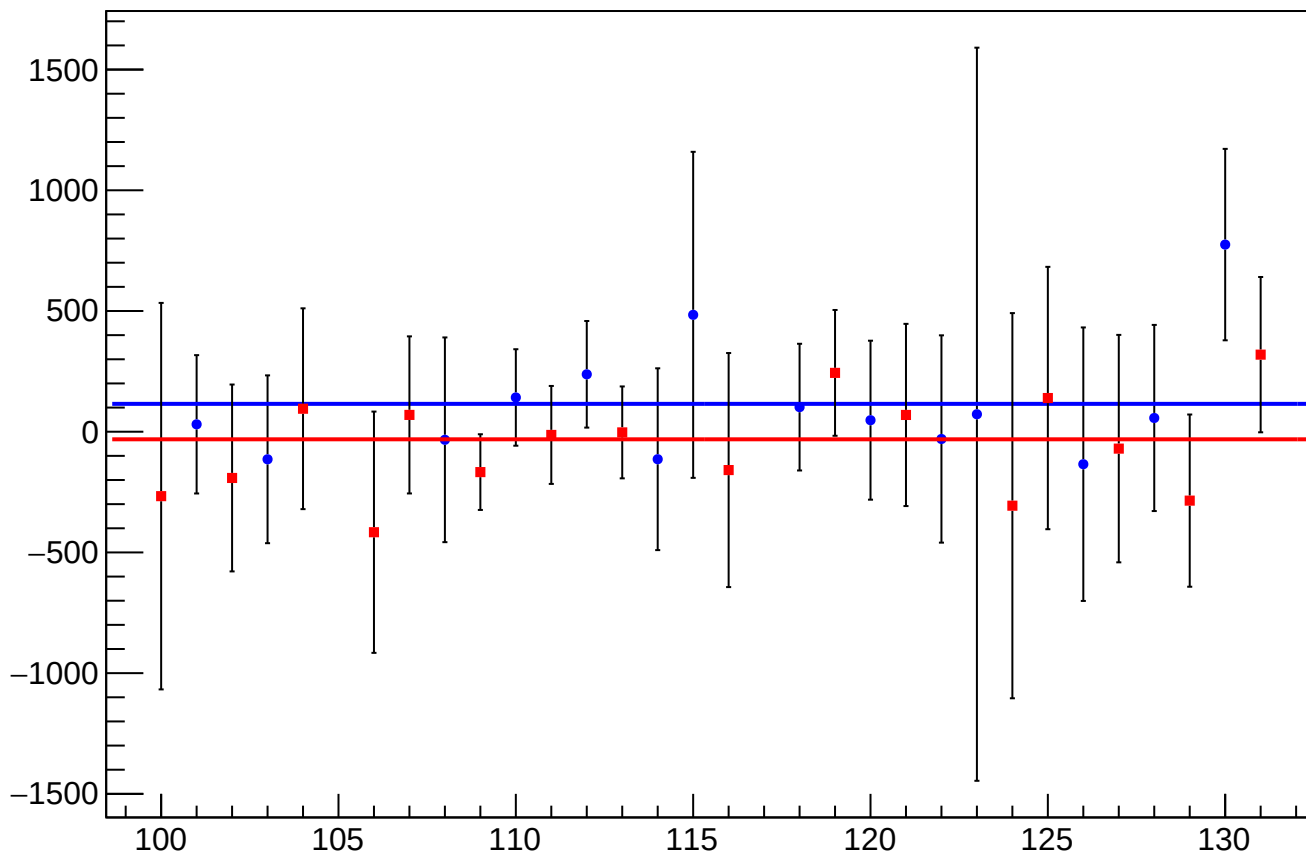
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 178.955+/-0.041  $\chi^2/\text{NDF}$ : 2439494.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bcm\_an\_us\_mean vs Slug



Right In: 115.397 $\pm$ 88.859  $\chi^2$ /NDF: 4.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -31.447 $\pm$ 76.014  $\chi^2$ /NDF: 5.0/15

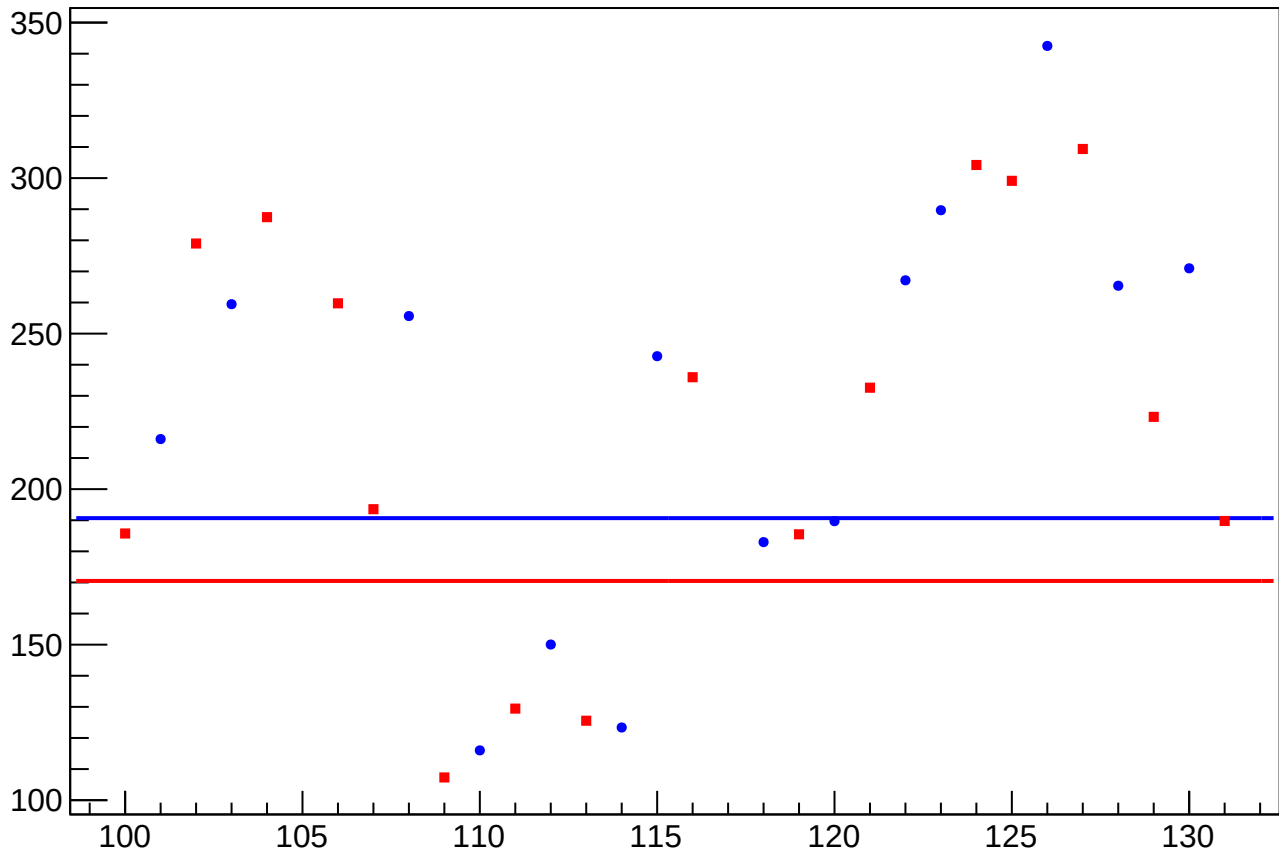
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 30.604 $\pm$ 57.762  $\chi^2$ /NDF: 11.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_an\_us\_rms vs Slug



Right In:  $190.680 \pm 0.063$   $\chi^2/\text{NDF}$ : 938473.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $170.486 \pm 0.054$   $\chi^2/\text{NDF}$ : 1398604.4/15

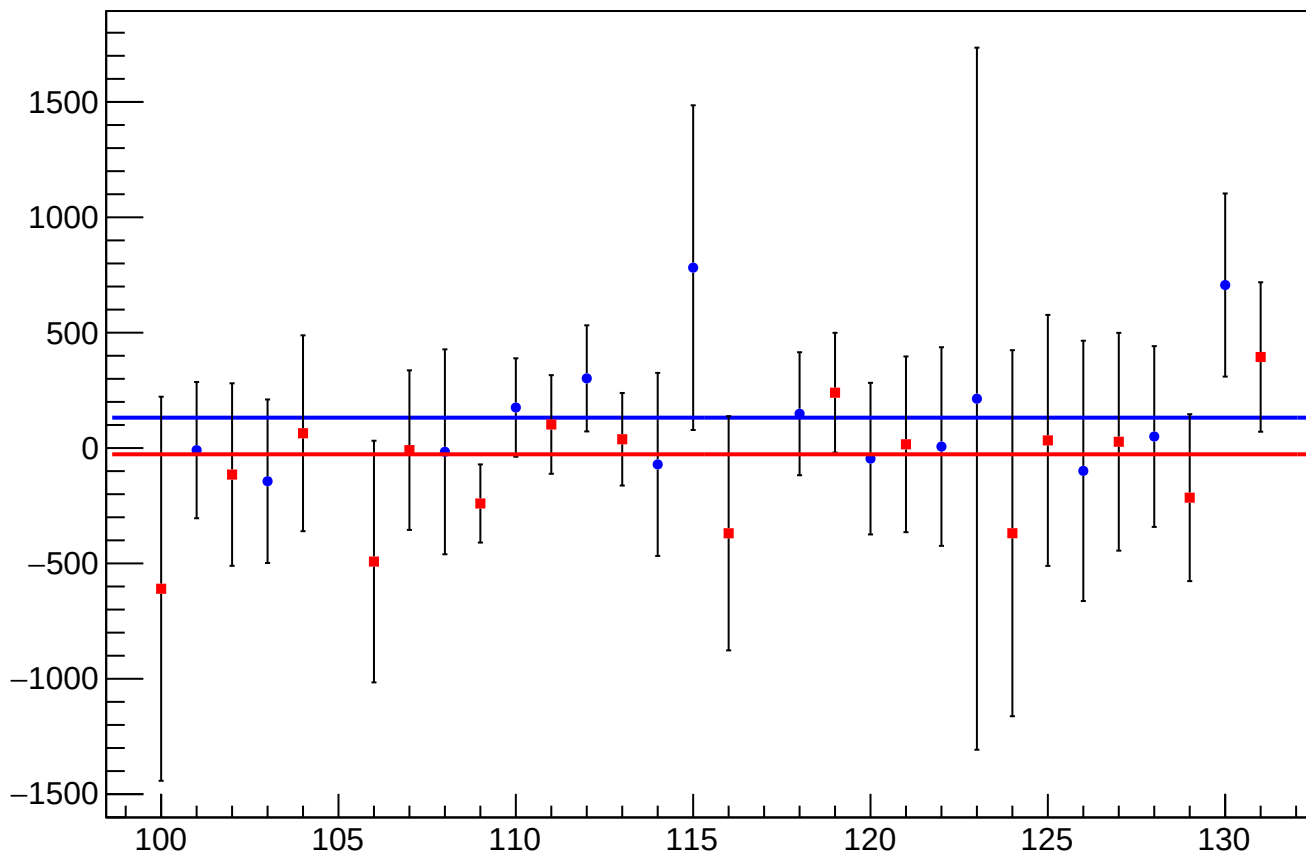
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $179.019 \pm 0.041$   $\chi^2/\text{NDF}$ : 2396726.1/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_us\_mean vs Slug



Right In: 131.732 $\pm$ 91.683  $\chi^2$ /NDF: 5.3/13

Left Out: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

Right Out: -27.099 $\pm$ 79.241  $\chi^2$ /NDF: 7.1/15

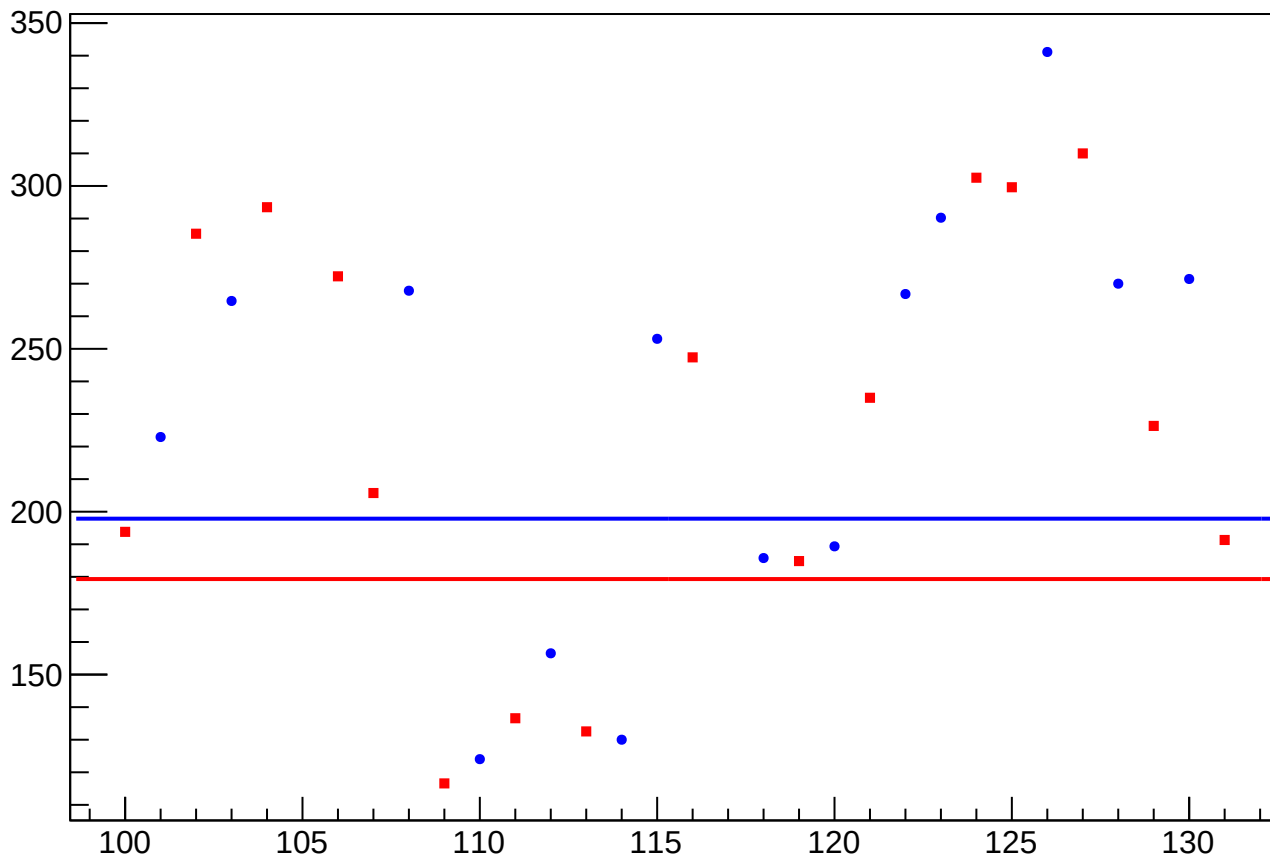
Left In: 0.000 $\pm$ -0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

All: 40.816 $\pm$ 59.952  $\chi^2$ /NDF: 14.2/29

- sign 0.000 $\pm$ -0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_us\_rms vs Slug



Right In: 197.861+/-0.065  $\chi^2/\text{NDF}$ : 840180.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 179.323+/-0.056  $\chi^2/\text{NDF}$ : 1242177.1/15

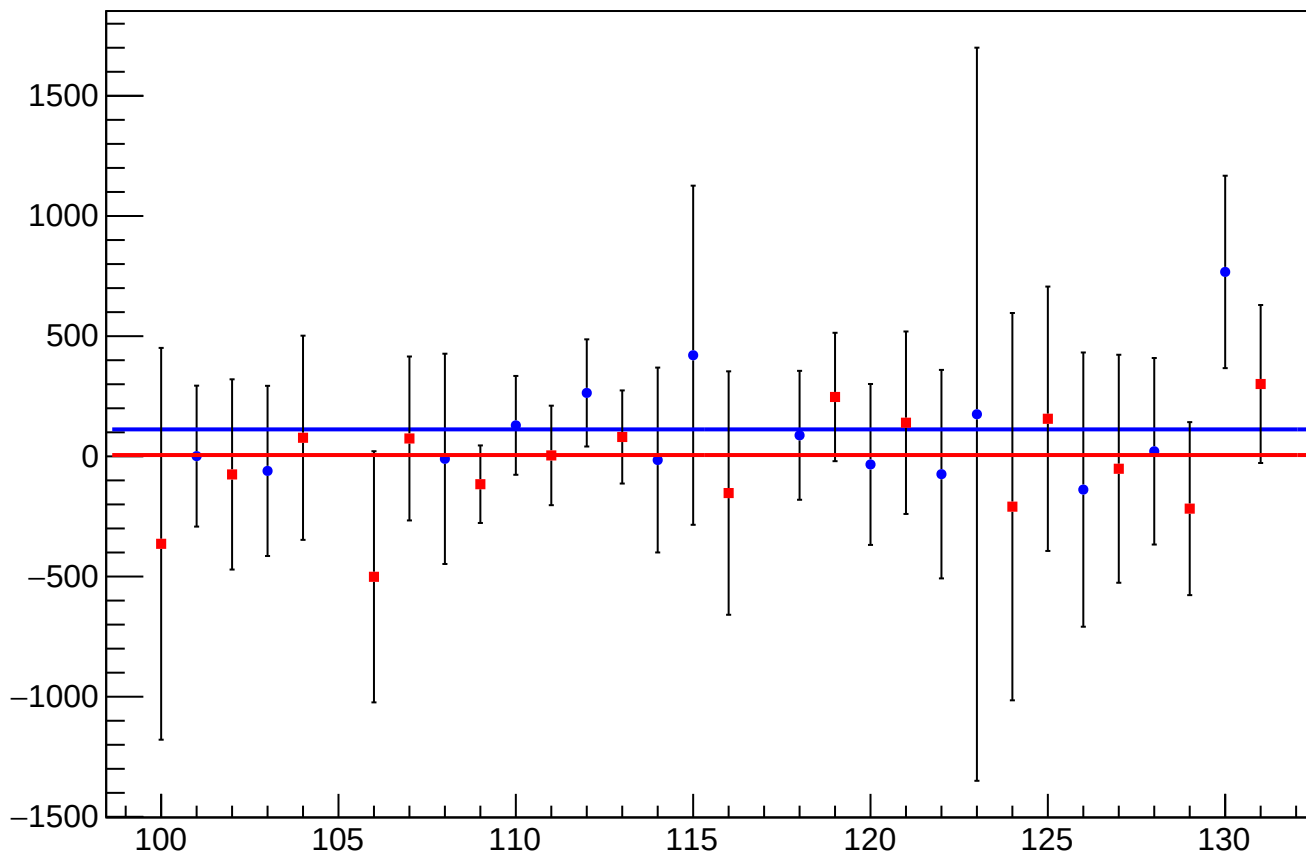
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 187.250+/-0.042  $\chi^2/\text{NDF}$ : 2129159.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm\_dg\_ds\_mean vs Slug



Right In: 112.214 $\pm$ 90.569  $\chi^2$ /NDF: 4.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 5.477 $\pm$ 77.791  $\chi^2$ /NDF: 4.4/15

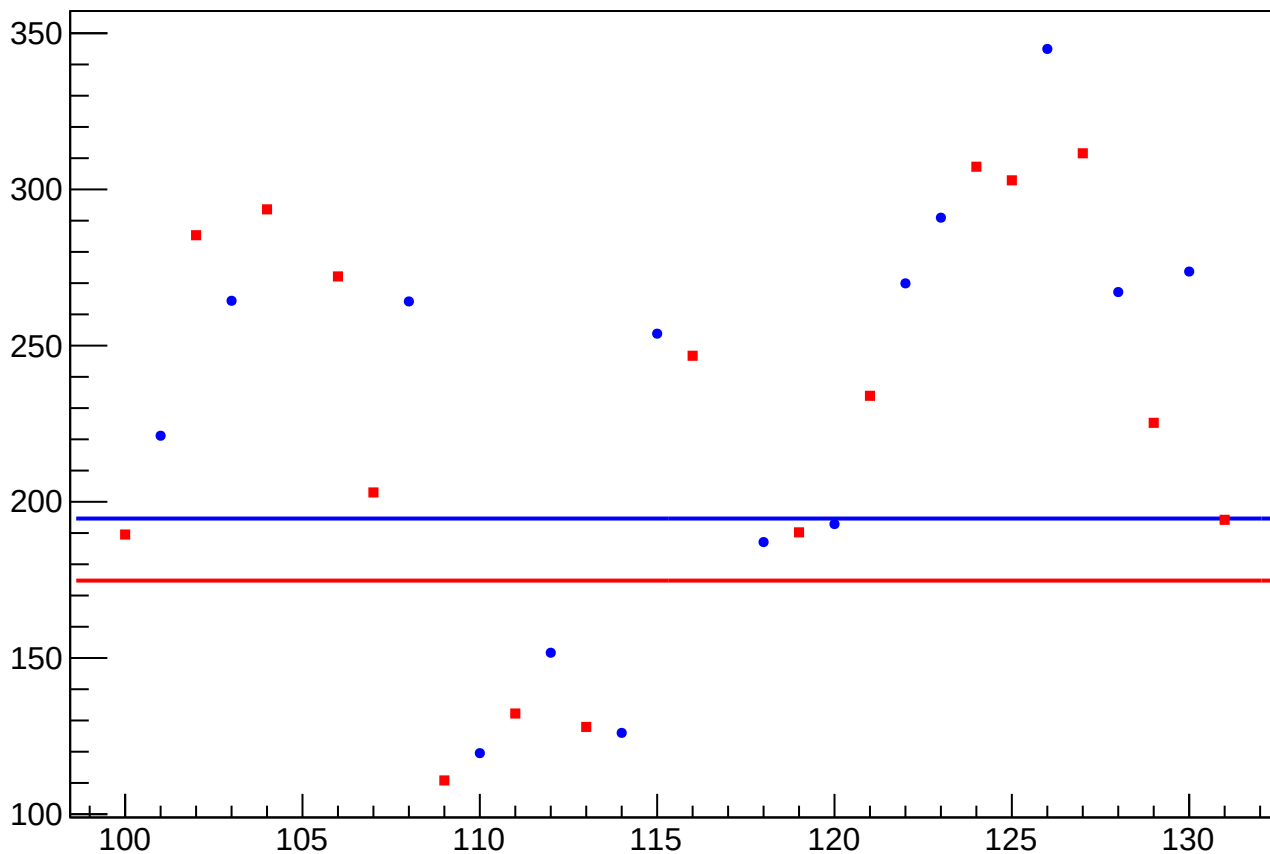
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 50.791 $\pm$ 59.012  $\chi^2$ /NDF: 9.7/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm\_dg\_ds\_rms vs Slug



Right In:  $194.644 \pm 0.064$   $\chi^2/\text{NDF}$ : 919818.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $174.777 \pm 0.055$   $\chi^2/\text{NDF}$ : 1383604.6/15

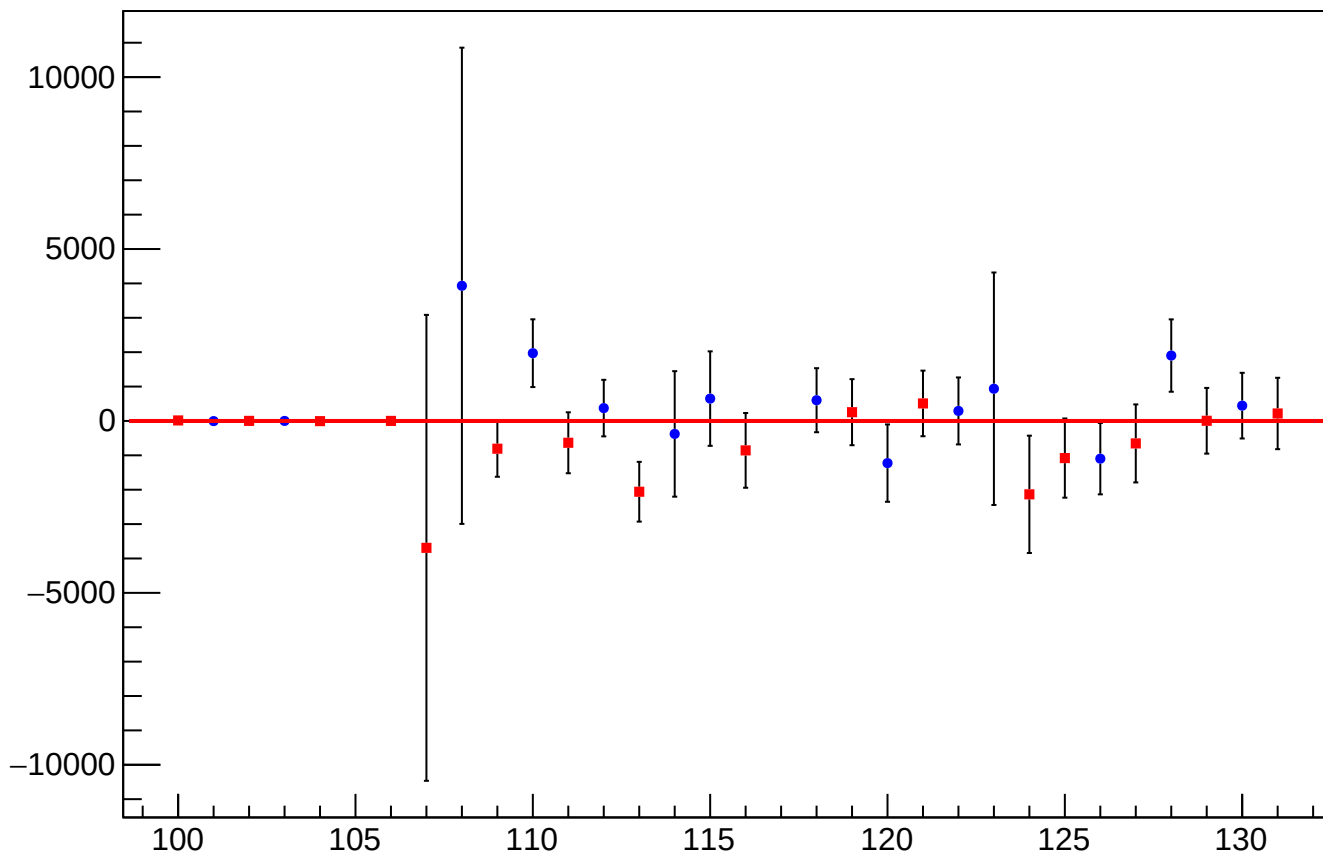
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $183.211 \pm 0.042$   $\chi^2/\text{NDF}$ : 2358805.6/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4bQ\_mean vs Slug



Right In:  $-1.499 \pm 2.251$   $\chi^2/\text{NDF}$ : 12.5/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.741 \pm 2.111$   $\chi^2/\text{NDF}$ : 17.1/15

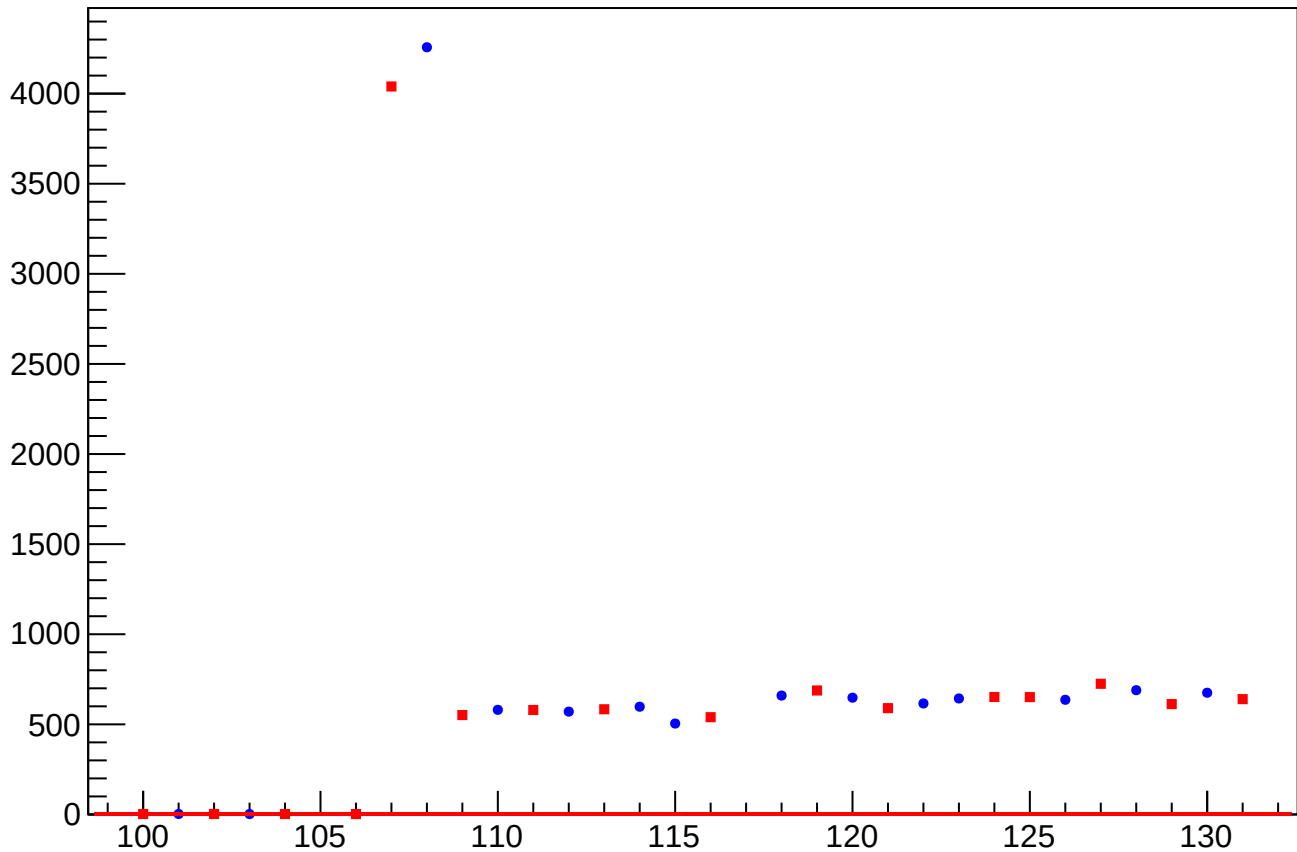
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-1.096 \pm 1.540$   $\chi^2/\text{NDF}$ : 29.7/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_cav4bQ\_rms vs Slug



Right In: 2.440+/-0.002     $\chi^2/\text{NDF}$ : 8002999.4/13

Left Out: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.426+/-0.001     $\chi^2/\text{NDF}$ : 8941457.0/15

Left In: 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

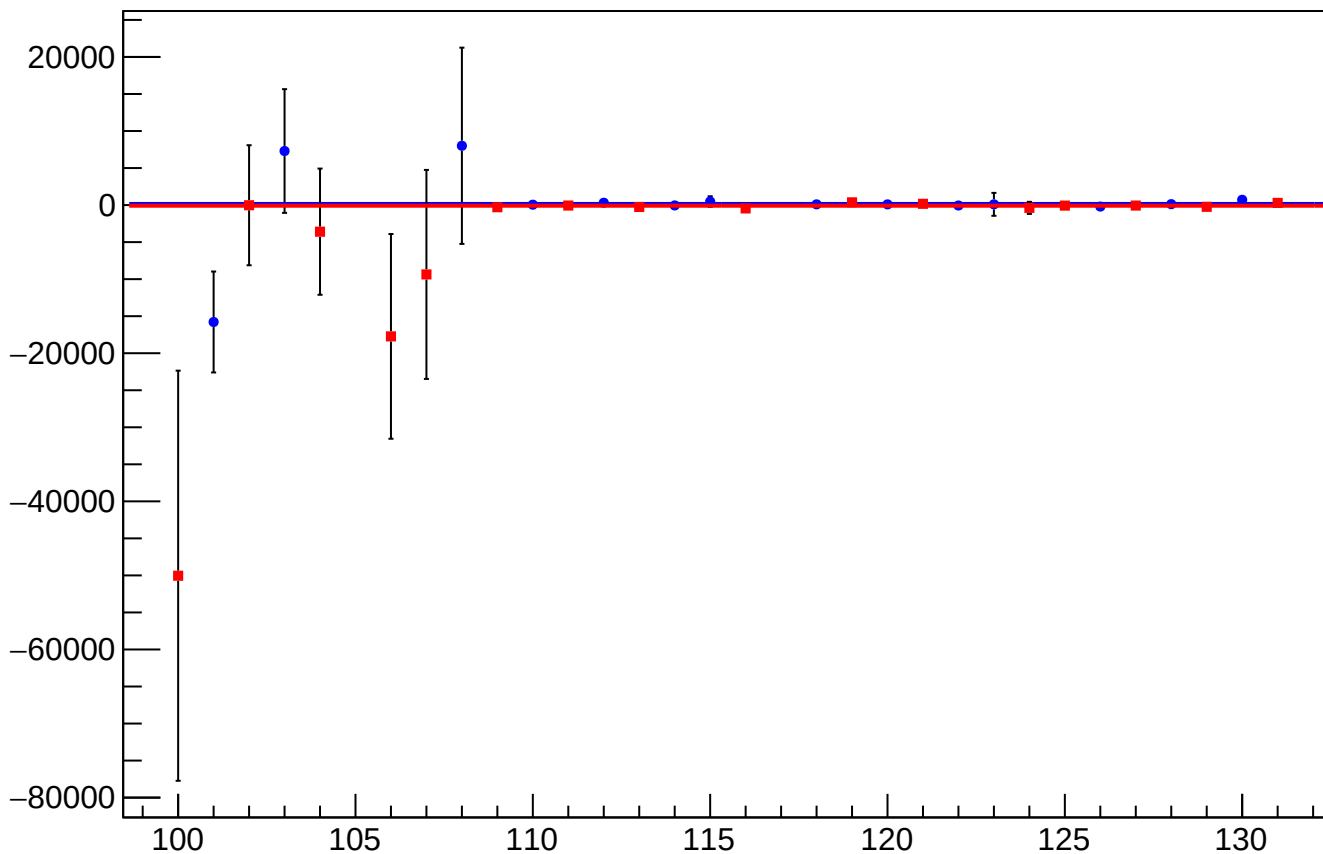
+ sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0

All: 2.433+/-0.001     $\chi^2/\text{NDF}$ : 16944499.0/29

- sign 0.000+/-0.000     $\chi^2/\text{NDF}$ : 0.0/0



# asym\_cav4cQ\_mean vs Slug



Right In: 151.889 $\pm$ 104.191  $\chi^2$ /NDF: 10.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: -86.089 $\pm$ 93.639  $\chi^2$ /NDF: 12.0/15

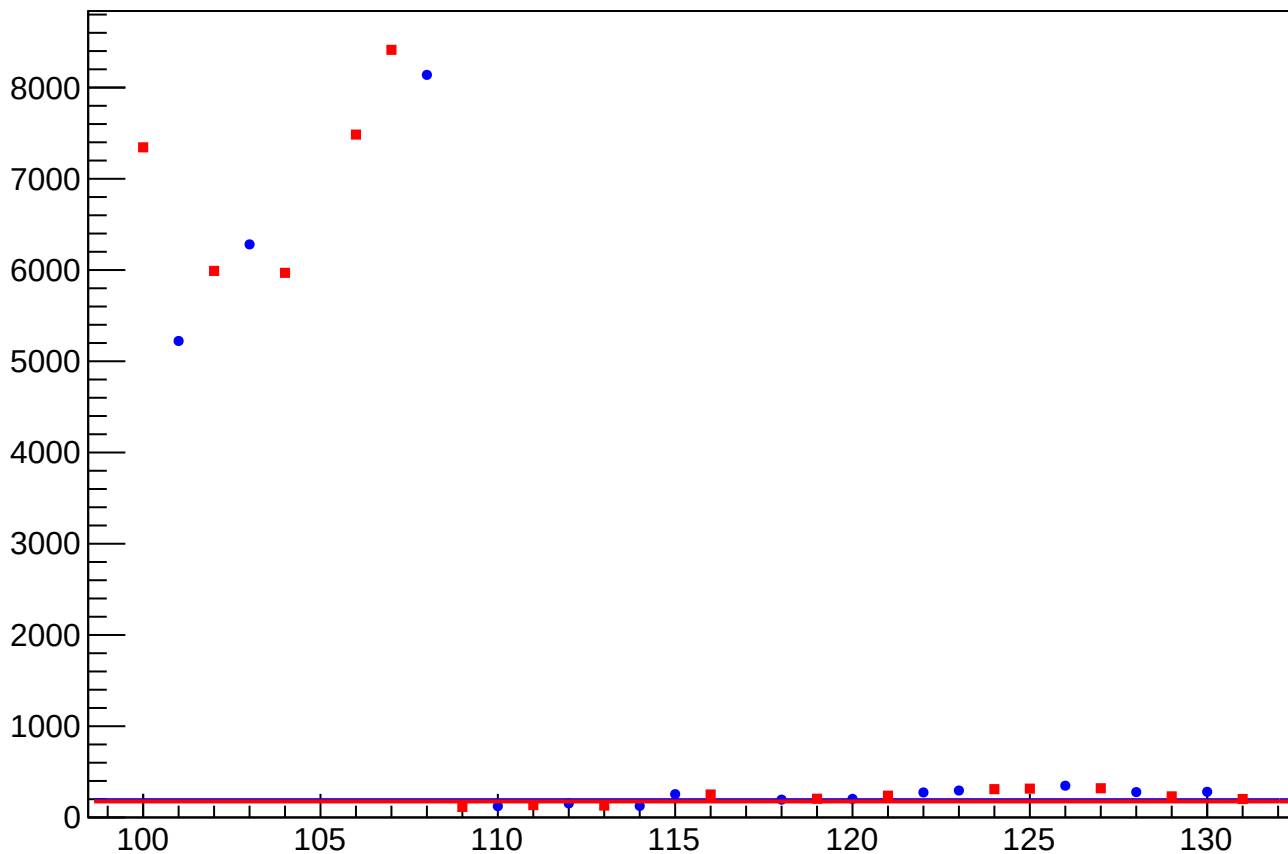
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 20.244 $\pm$ 69.646  $\chi^2$ /NDF: 25.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4cQ\_rms vs Slug



Right In: 189.602 $\pm$ 0.074  $\chi^2$ /NDF: 3624712.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 175.562 $\pm$ 0.066  $\chi^2$ /NDF: 4171272.4/15

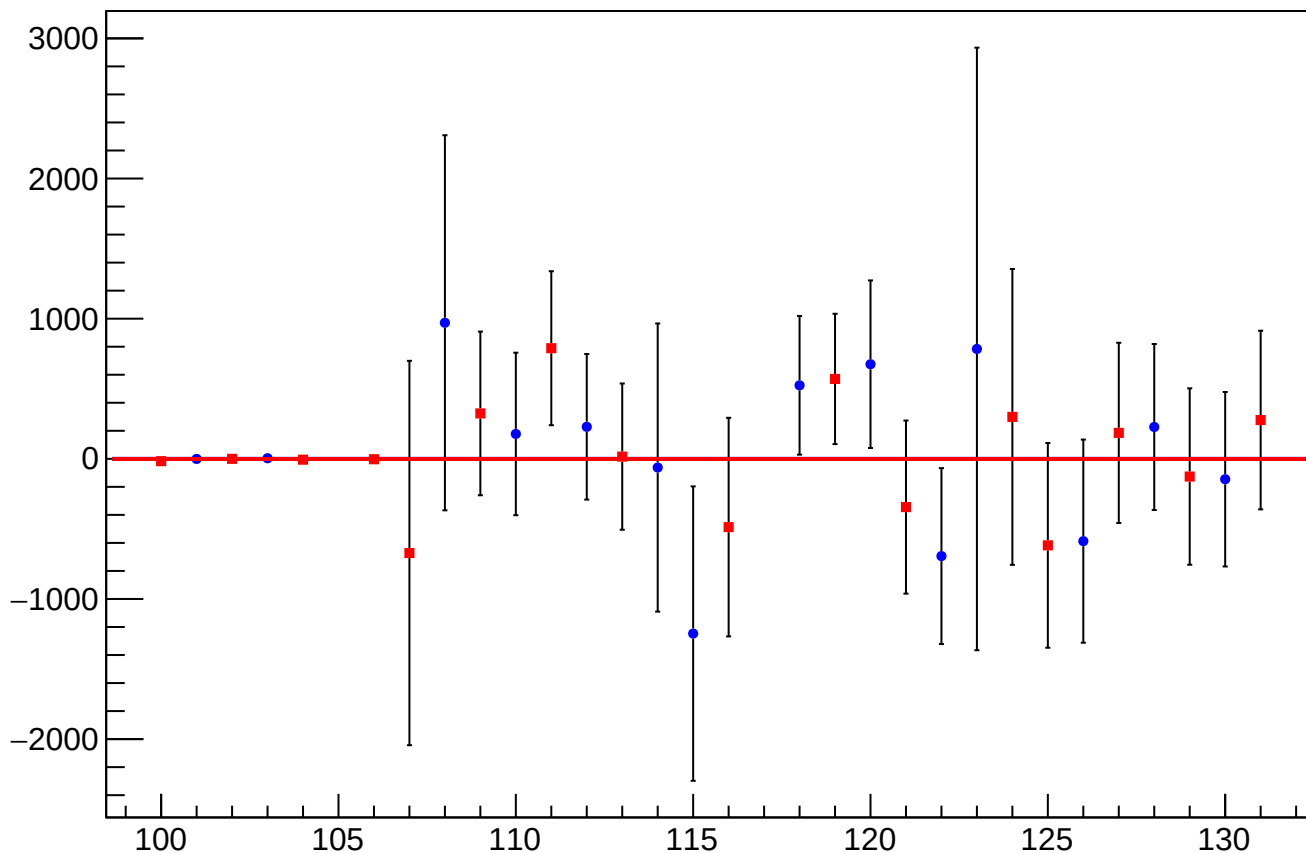
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 181.835 $\pm$ 0.049  $\chi^2$ /NDF: 7816075.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4dQ\_mean vs Slug



Right In: -0.153+/-1.737  $\chi^2$ /NDF: 7.7/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.323+/-1.623  $\chi^2$ /NDF: 8.7/15

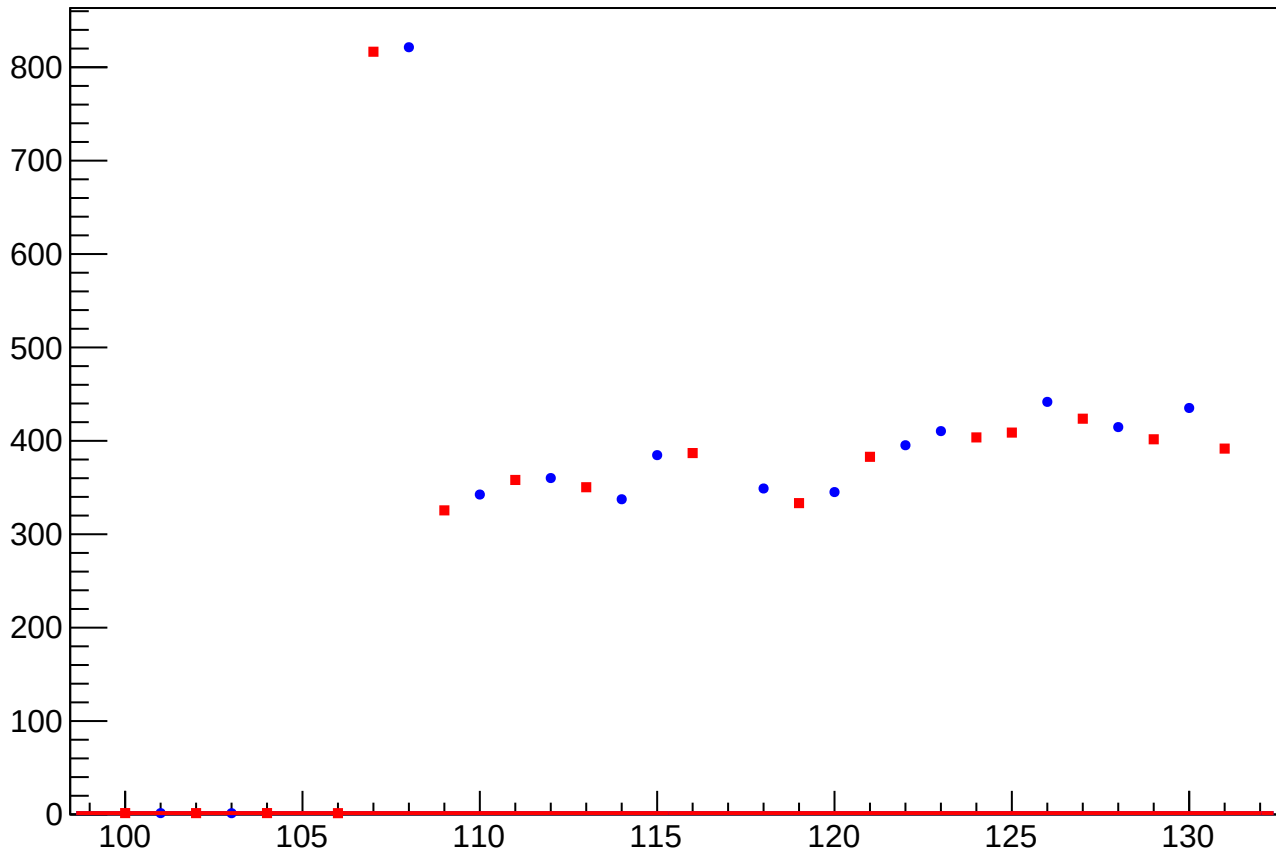
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.778+/-1.186  $\chi^2$ /NDF: 16.6/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_cav4dQ\_rms vs Slug



Right In: 1.442 $\pm$ 0.001  $\chi^2$ /NDF: 8069269.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1.444 $\pm$ 0.001  $\chi^2$ /NDF: 8665179.0/15

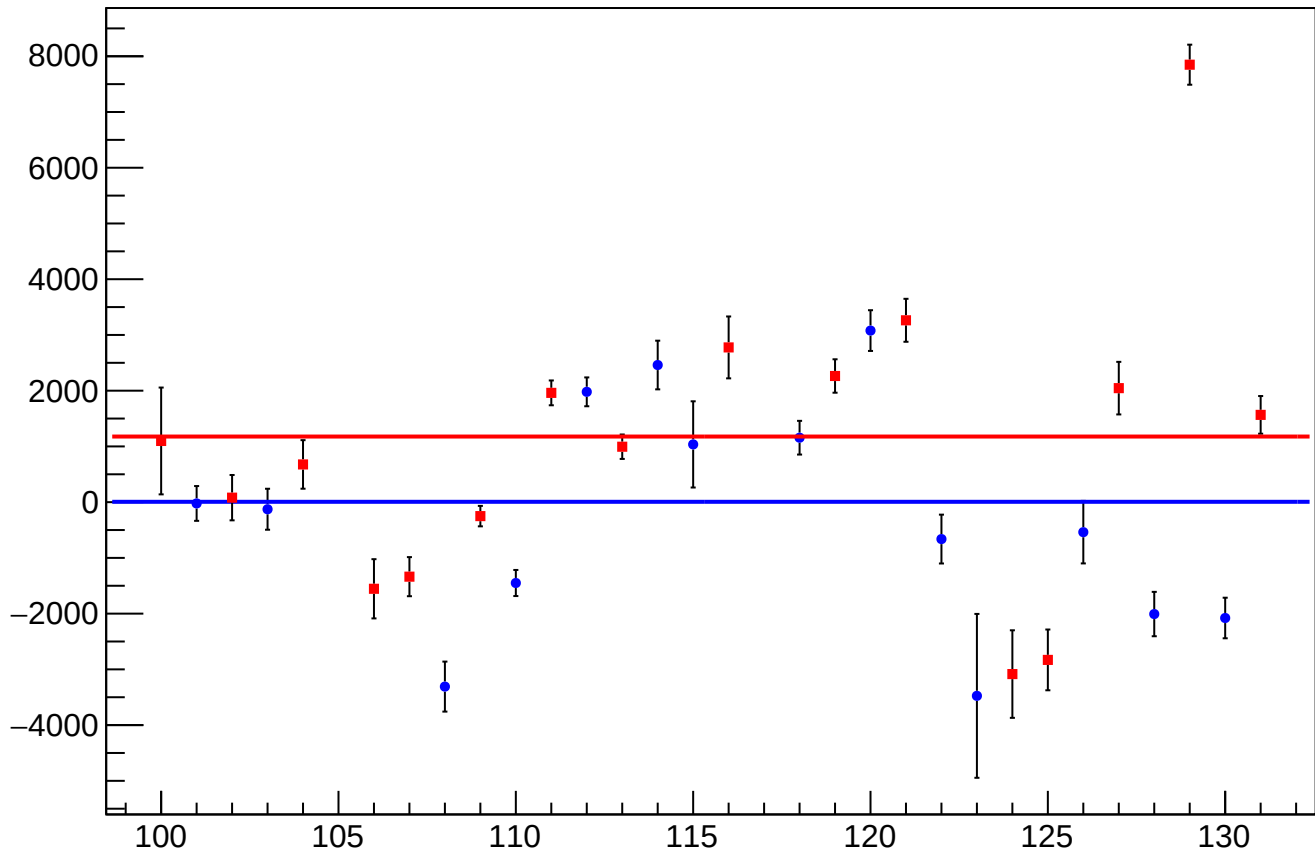
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1.443 $\pm$ 0.001  $\chi^2$ /NDF: 16734450.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bcm0l02\_mean vs Slug



Right In: 6.359+/-98.106  $\chi^2/\text{NDF}$ : 337.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1177.251+/-83.948  $\chi^2/\text{NDF}$ : 643.7/15

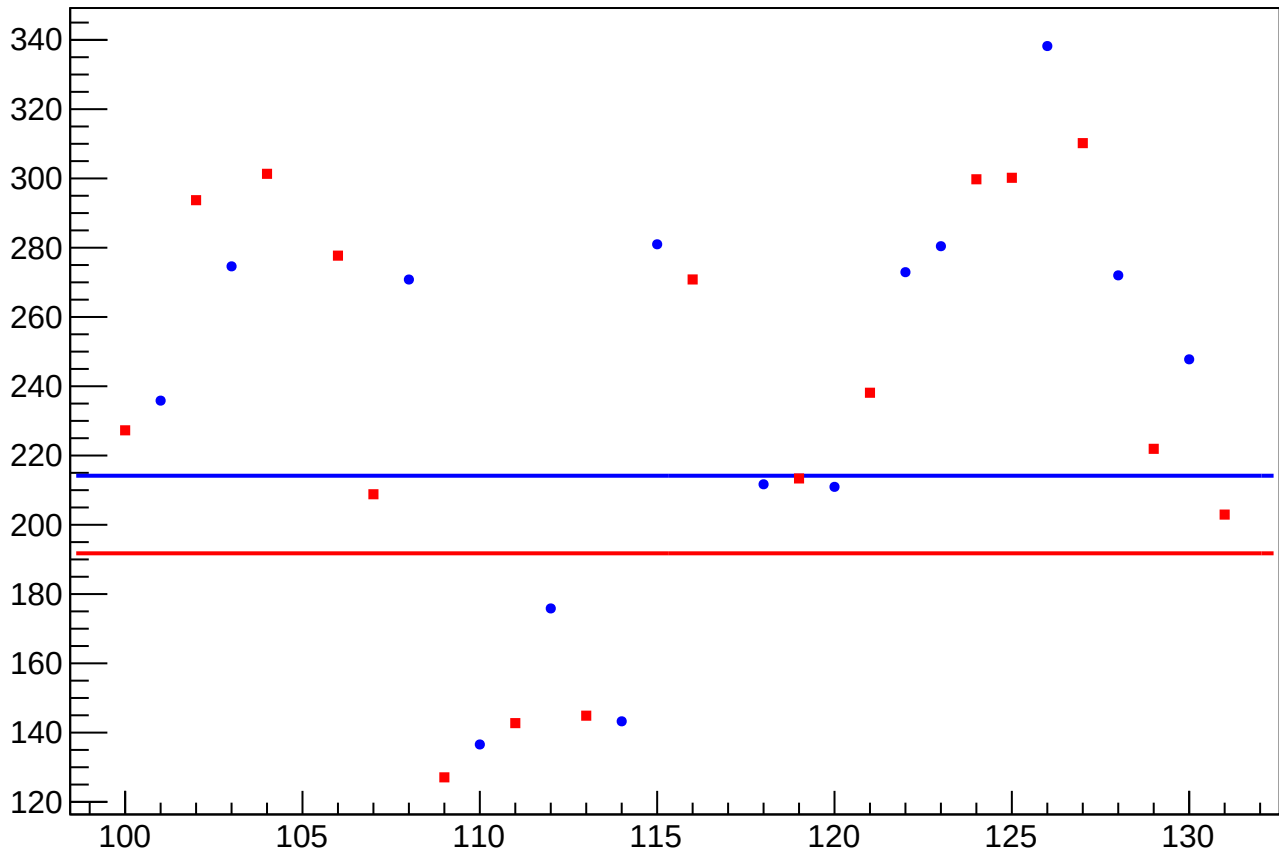
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 682.315+/-63.784  $\chi^2/\text{NDF}$ : 1063.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bcm0l02\_rms vs Slug



Right In: 214.166+/-0.069  $\chi^2/\text{NDF}$ : 624591.2/13

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

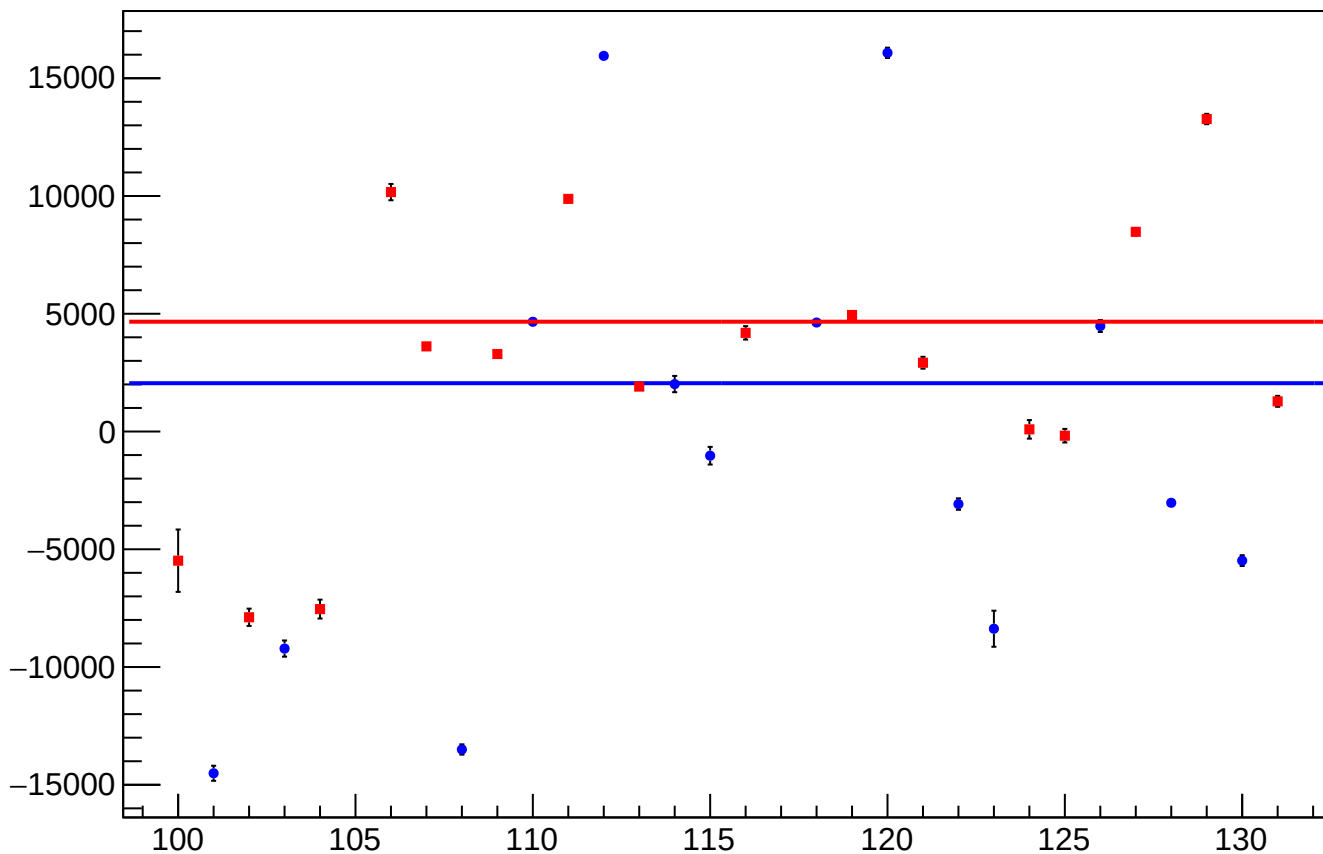
Right Out: 191.764+/-0.059  $\chi^2/\text{NDF}$ : 1088595.4/15

All: 201.233+/-0.045  $\chi^2/\text{NDF}$ : 1773387.0/29

- 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

# asym\_bpm0i02WS\_mean vs Slug



Right In: 2051.441+/-62.336  $\chi^2/\text{NDF}$ : 22430.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4662.792+/-57.513  $\chi^2/\text{NDF}$ : 6453.3/15

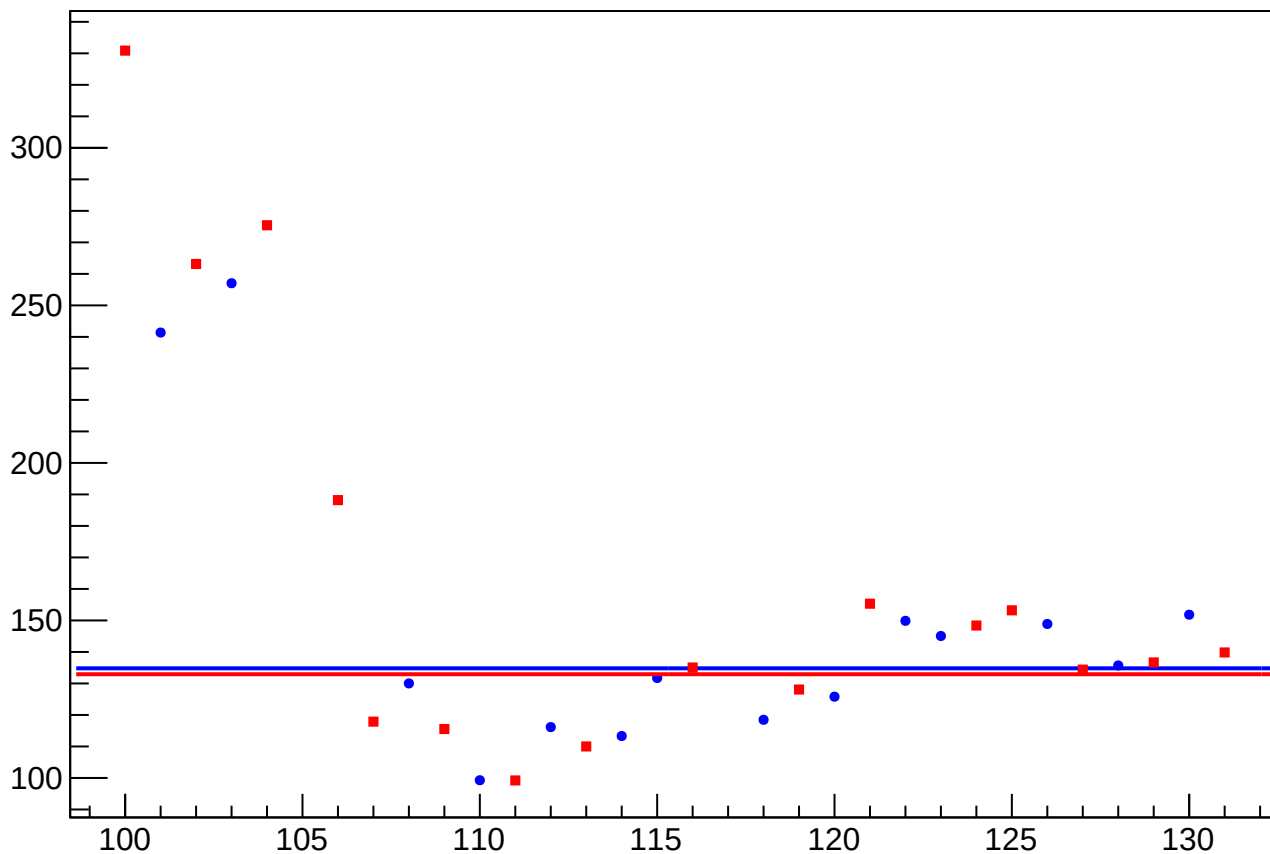
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3462.042+/-42.270  $\chi^2/\text{NDF}$ : 29831.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02WS\_rms vs Slug



Right In: 134.801+/-0.044  $\chi^2/\text{NDF}$ : 640679.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 132.922+/-0.041  $\chi^2/\text{NDF}$ : 798519.7/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

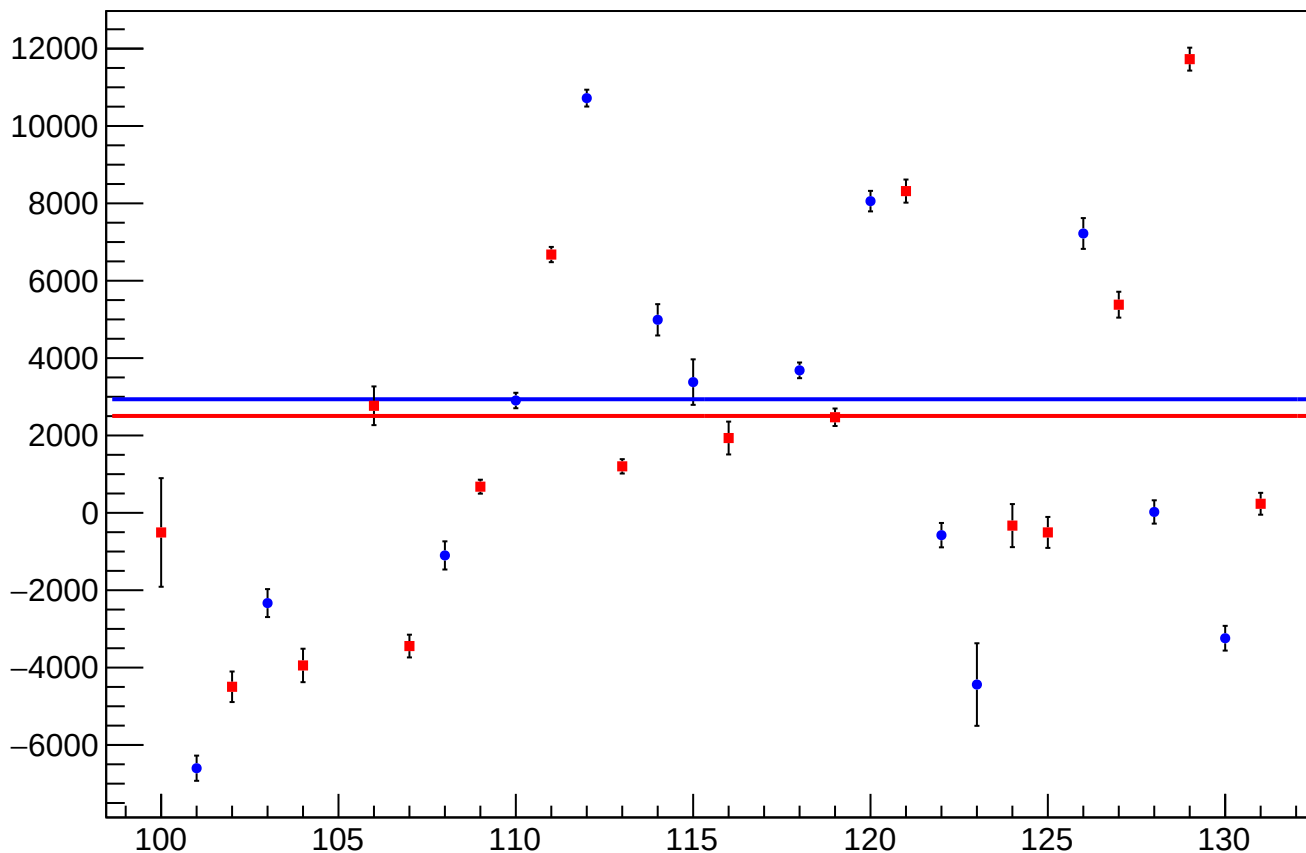
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.786+/-0.030  $\chi^2/\text{NDF}$ : 1440180.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0i02aWS\_mean vs Slug



Right In: 2936.309+/-79.956  $\chi^2/\text{NDF}$ : 3638.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2504.820+/-72.157  $\chi^2/\text{NDF}$ : 3120.4/15

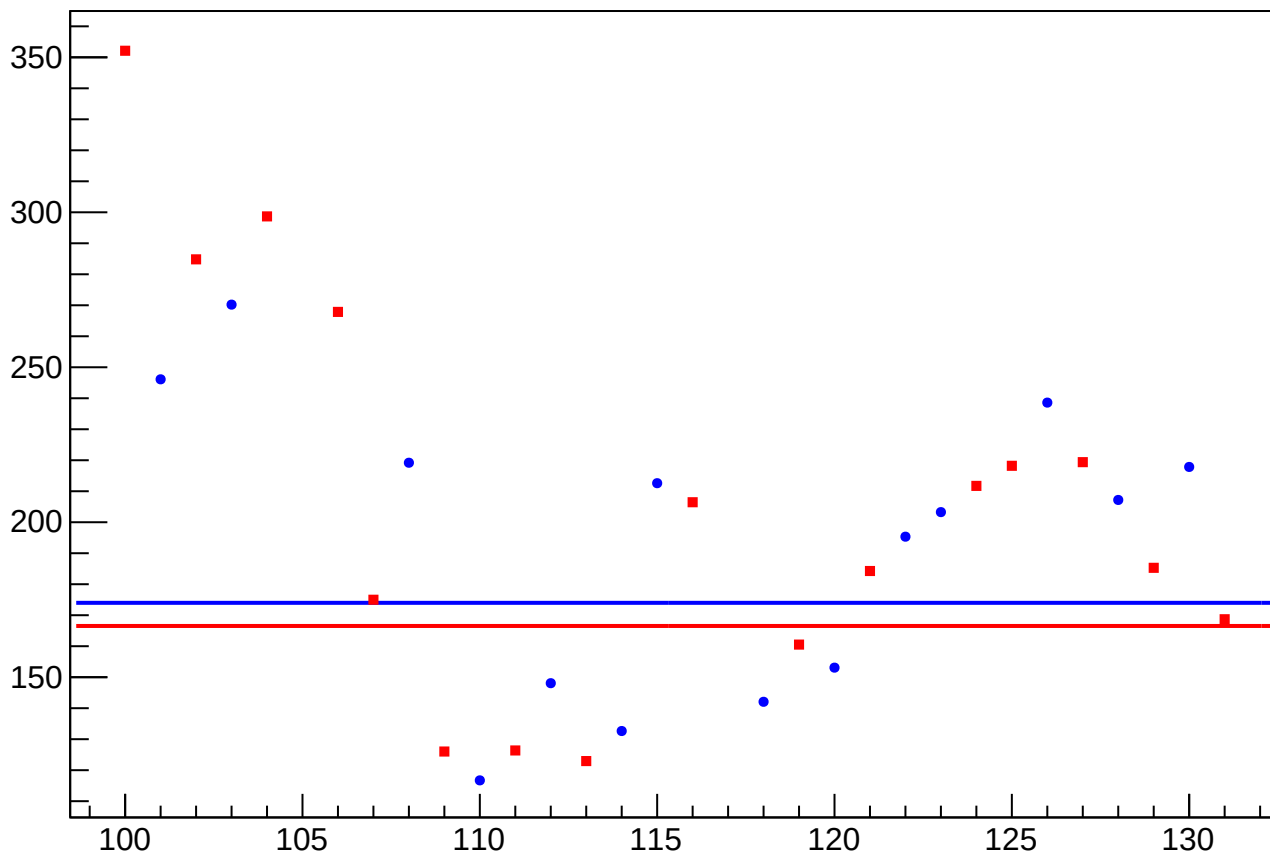
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2698.500+/-53.568  $\chi^2/\text{NDF}$ : 6774.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_rms vs Slug



Right In: 173.998 $\pm$ 0.057  $\chi^2$ /NDF: 680475.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 166.532 $\pm$ 0.051  $\chi^2$ /NDF: 910374.7/15

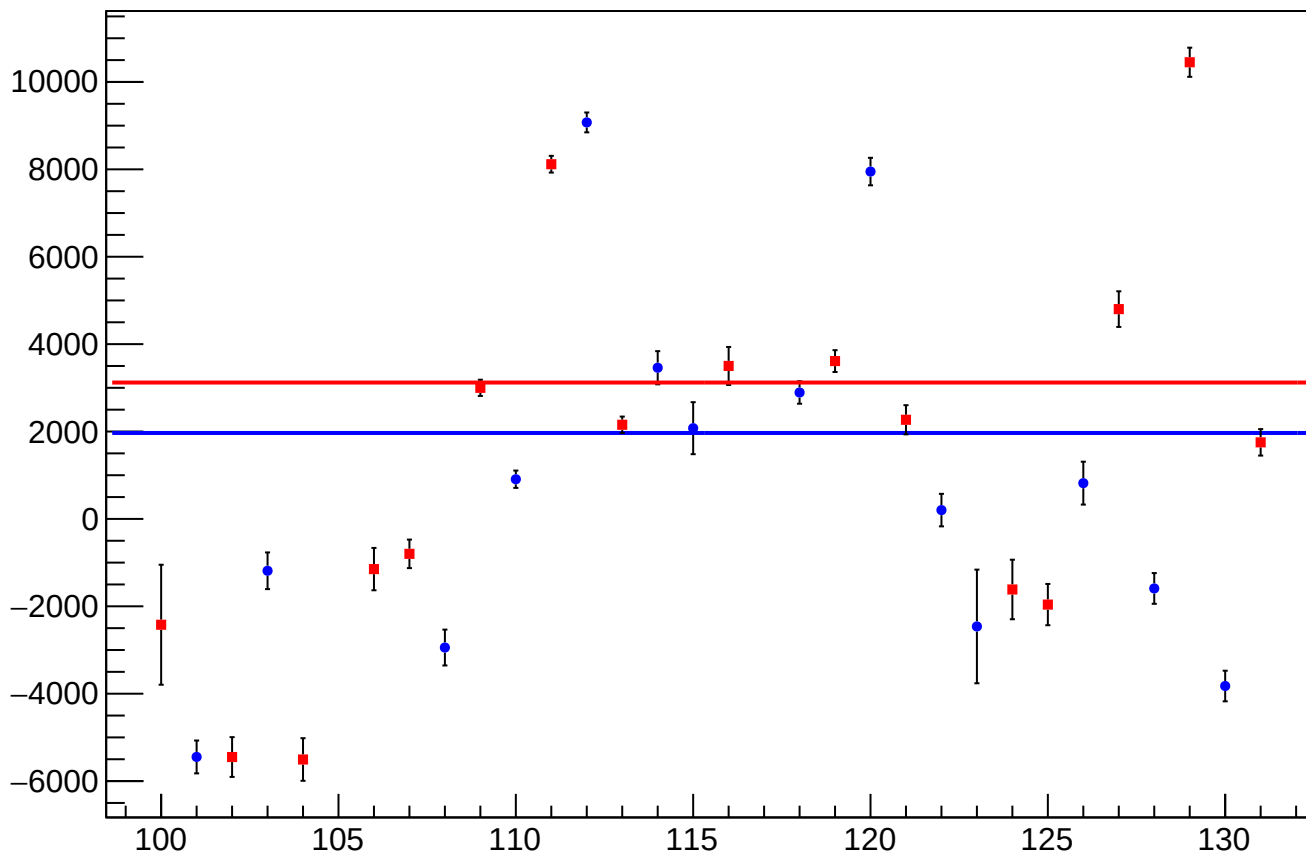
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 169.883 $\pm$ 0.038  $\chi^2$ /NDF: 1600462.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i05WS\_mean vs Slug



Right In: 1966.942+/-88.835  $\chi^2/\text{NDF}$ : 2399.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3121.040+/-76.511  $\chi^2/\text{NDF}$ : 2309.2/15

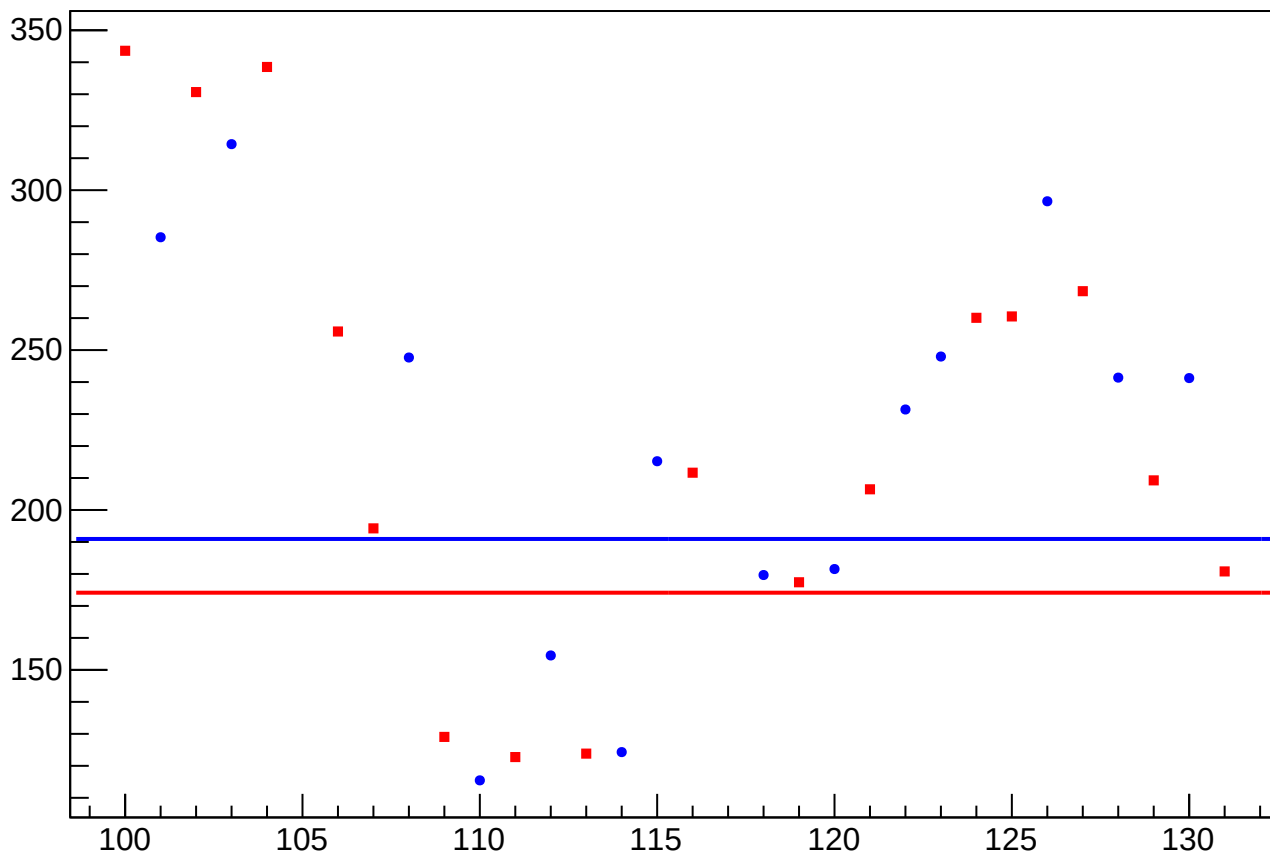
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2629.538+/-57.973  $\chi^2/\text{NDF}$ : 4806.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i05WS\_rms vs Slug



Right In: 190.939+/-0.063  $\chi^2/\text{NDF}$ : 952021.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 174.136+/-0.054  $\chi^2/\text{NDF}$ : 1227890.4/15

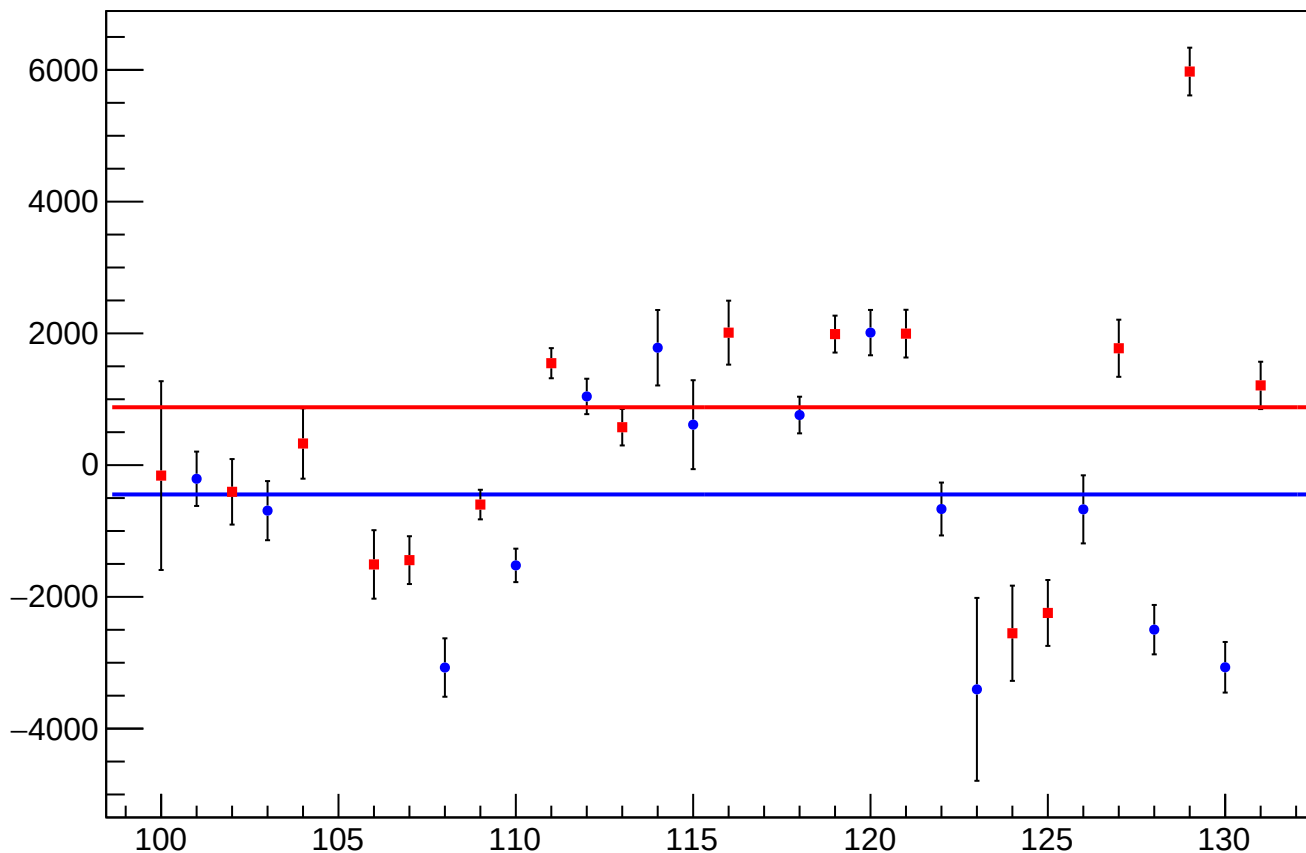
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 181.292+/-0.041  $\chi^2/\text{NDF}$ : 2220988.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i07WS\_mean vs Slug



Right In: -445.105+/-101.947  $\chi^2$ /NDF: 253.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 878.553+/-90.340  $\chi^2$ /NDF: 418.3/15

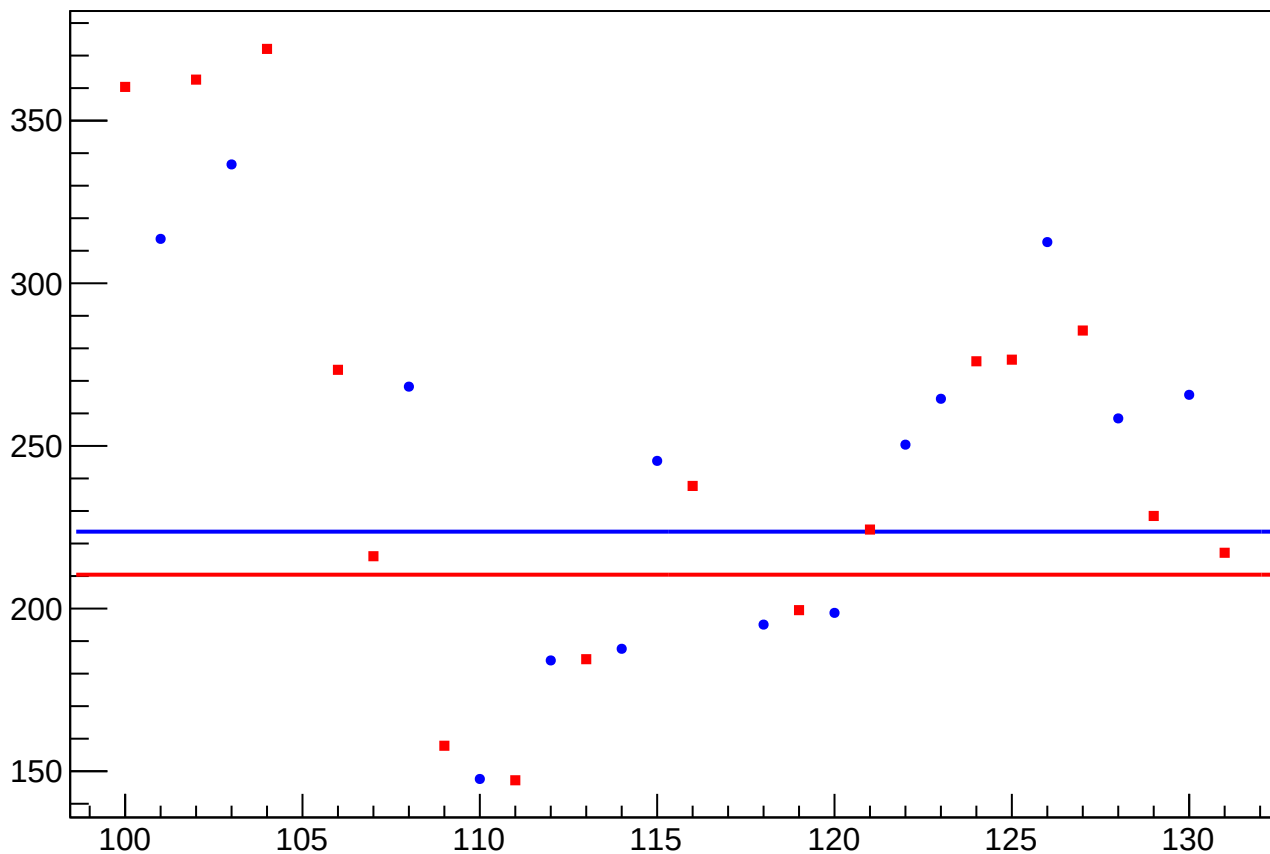
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 296.337+/-67.613  $\chi^2$ /NDF: 766.0/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i07WS\_rms vs Slug



Right In:  $223.648 \pm 0.072$   $\chi^2/\text{NDF}$ : 617231.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $210.418 \pm 0.064$   $\chi^2/\text{NDF}$ : 831248.5/15

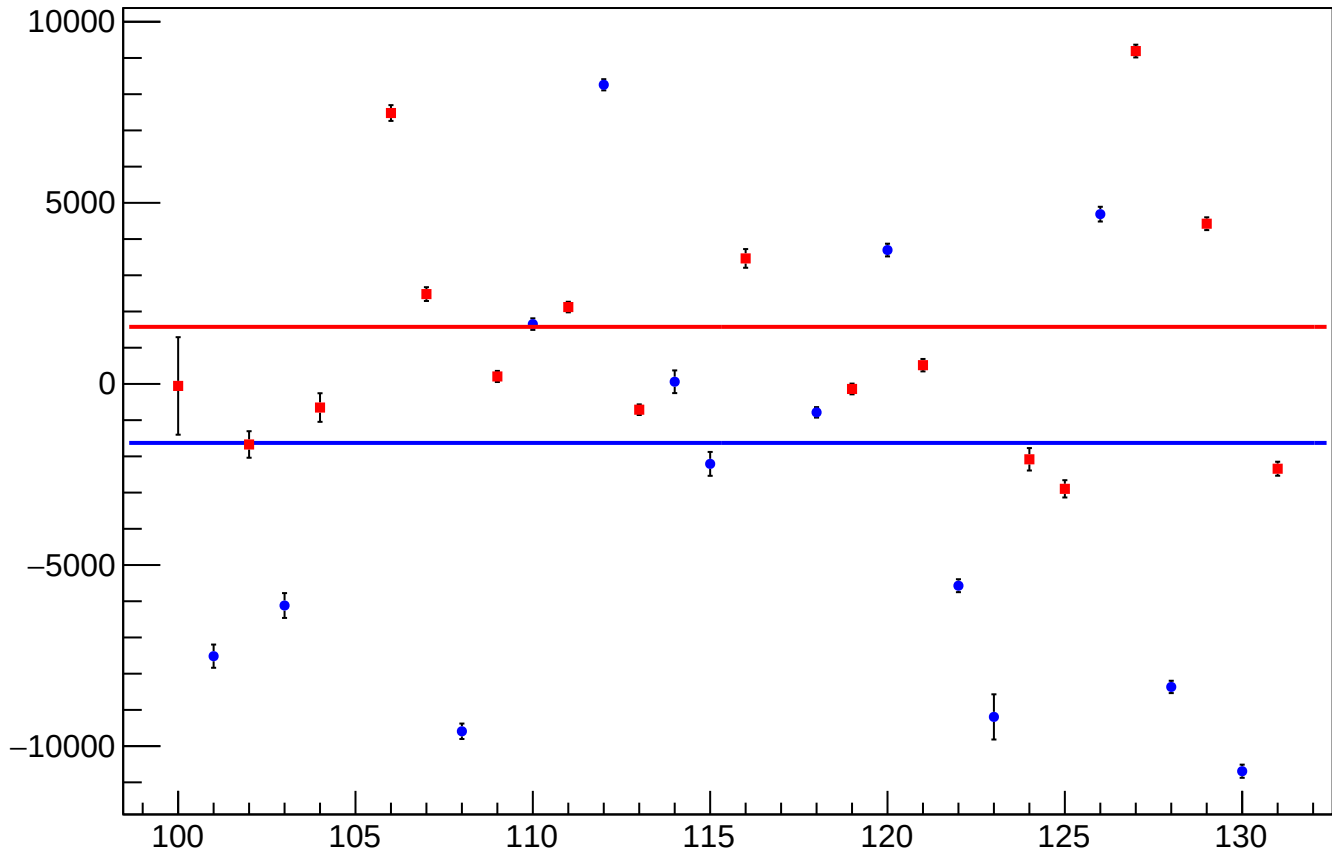
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $216.237 \pm 0.048$   $\chi^2/\text{NDF}$ : 1467345.6/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i02WS\_mean vs Slug



Right In:  $-1628.288 \pm 53.955$   $\chi^2/\text{NDF}: 13049.6/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $1576.106 \pm 49.246$   $\chi^2/\text{NDF}: 4456.9/15$

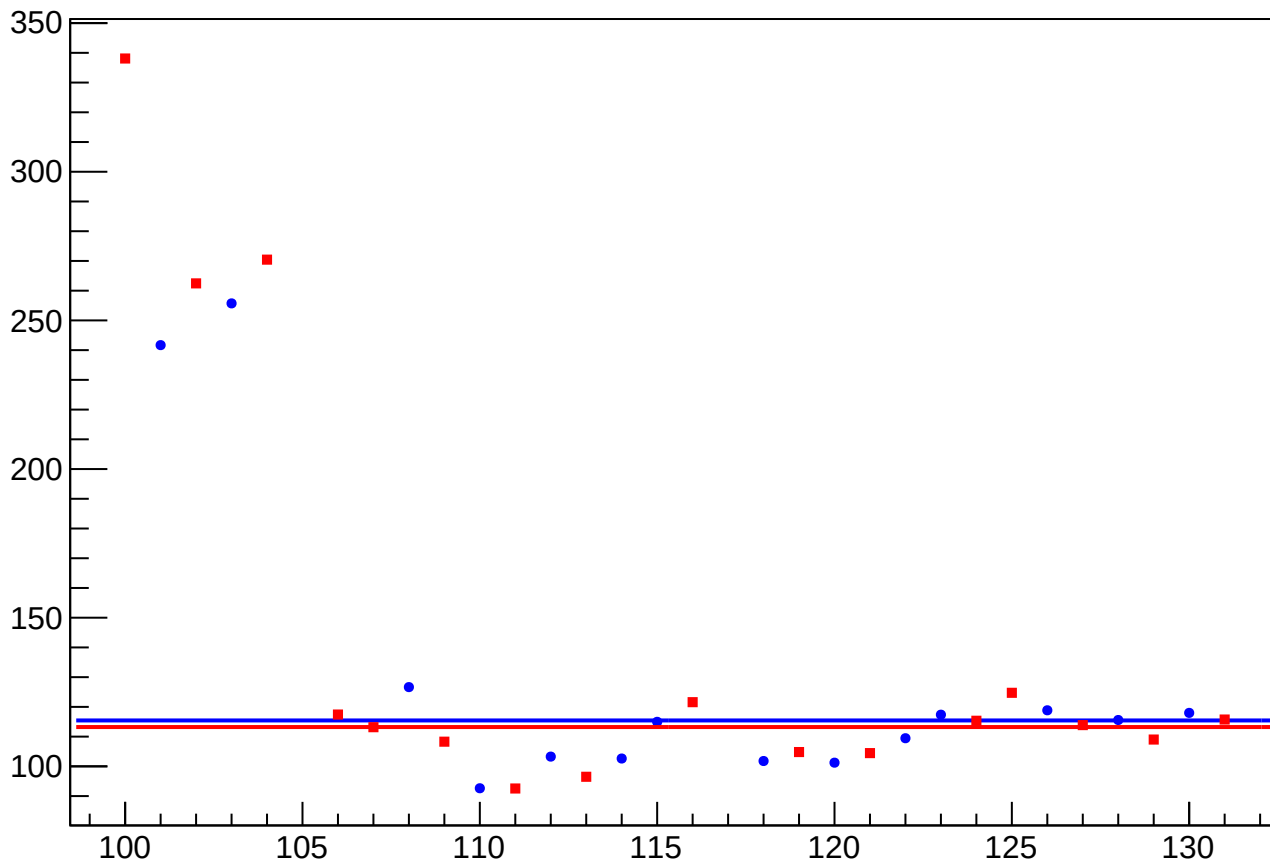
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $119.812 \pm 36.373$   $\chi^2/\text{NDF}: 19430.7/29$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# asym\_bpm1i02WS\_rms vs Slug



Right In: 115.440 $\pm$ 0.038  $\chi^2$ /NDF: 741030.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 113.219 $\pm$ 0.035  $\chi^2$ /NDF: 793593.2/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

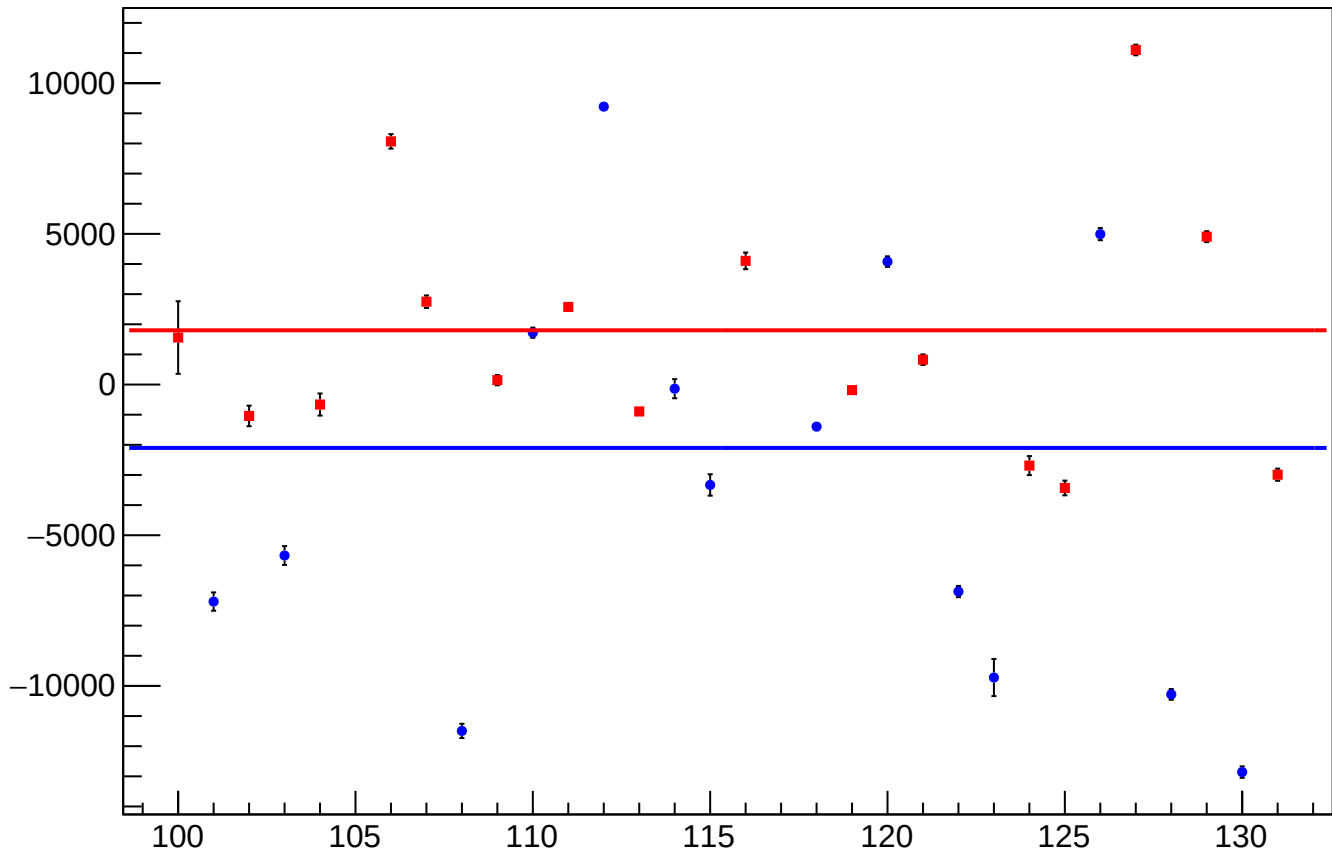
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 114.228 $\pm$ 0.026  $\chi^2$ /NDF: 1536471.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# asym\_bpm2i01WS\_mean vs Slug



Right In: -2102.650+/-55.654  $\chi^2/\text{NDF}$ : 16052.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1800.265+/-51.170  $\chi^2/\text{NDF}$ : 5829.0/15

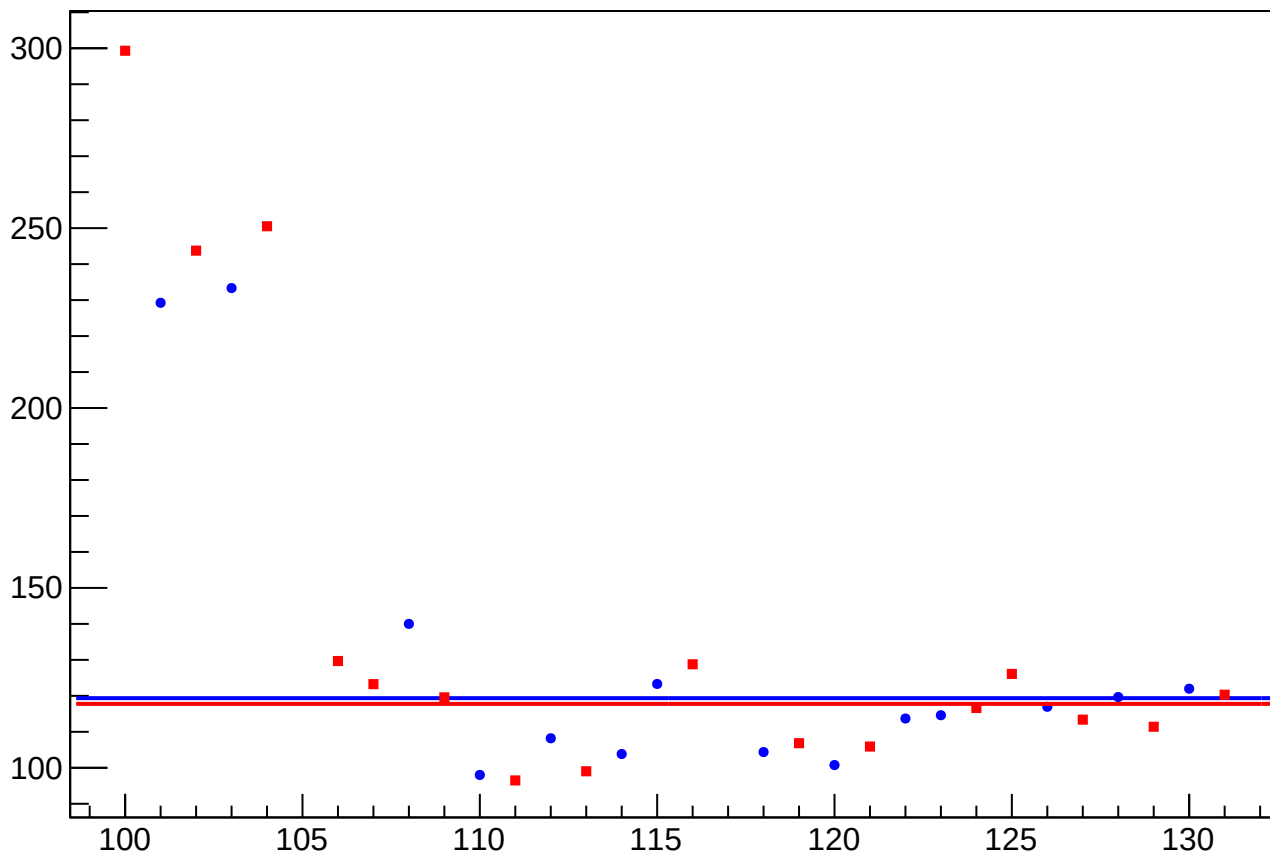
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 12.342+/-37.668  $\chi^2/\text{NDF}$ : 24546.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm2i01WS\_rms vs Slug



Right In: 119.361+/-0.039  $\chi^2/\text{NDF}$ : 632701.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 117.769+/-0.036  $\chi^2/\text{NDF}$ : 685792.0/15

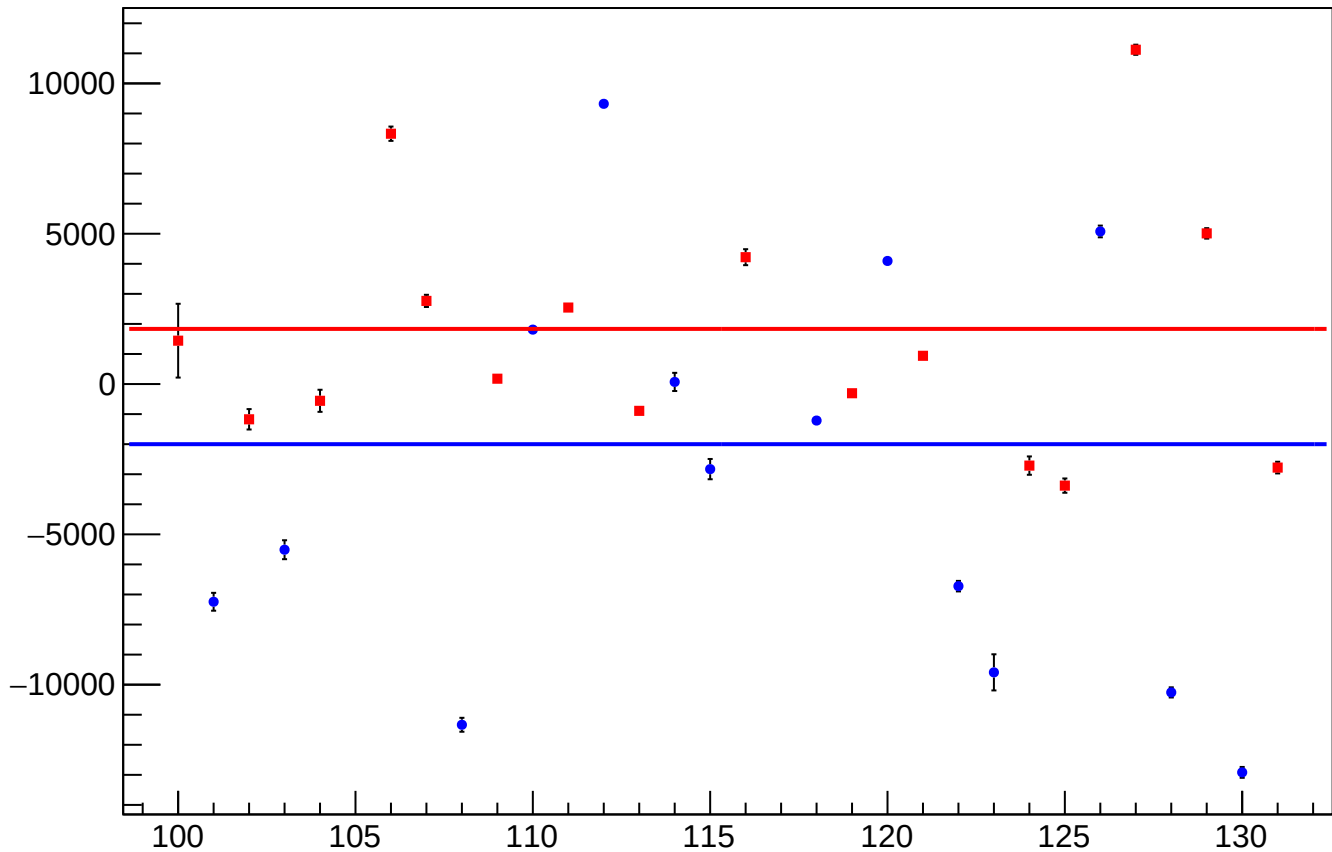
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 118.498+/-0.027  $\chi^2/\text{NDF}$ : 1319380.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm2i02WS\_mean vs Slug



Right In: -2000.502+/-53.350  $\chi^2/\text{NDF}$ : 17548.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1834.438+/-49.062  $\chi^2/\text{NDF}$ : 6329.3/15

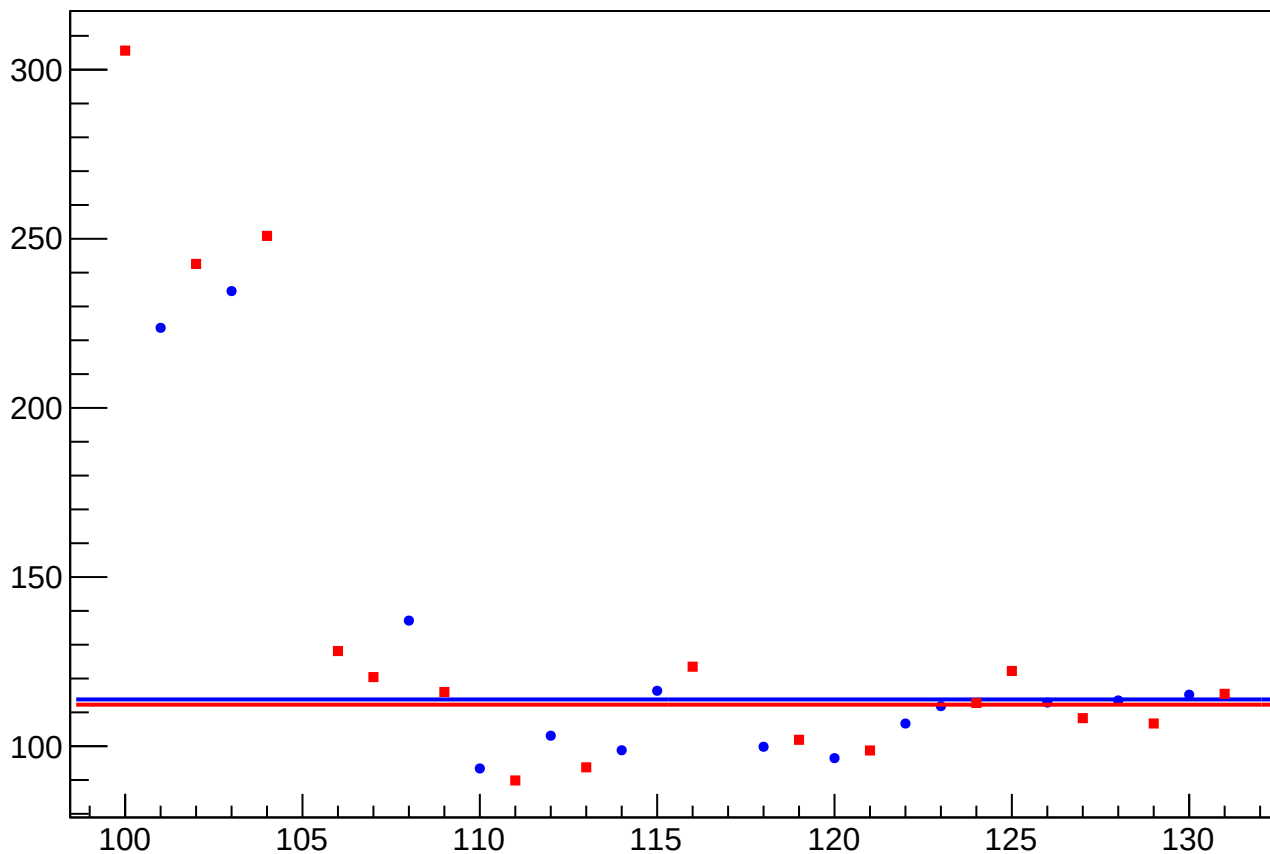
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 77.243+/-36.113  $\chi^2/\text{NDF}$ : 26677.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm2i02WS\_rms vs Slug



Right In: 113.820 $\pm$ 0.038  $\chi^2$ /NDF: 678149.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 112.269 $\pm$ 0.035  $\chi^2$ /NDF: 759632.3/15

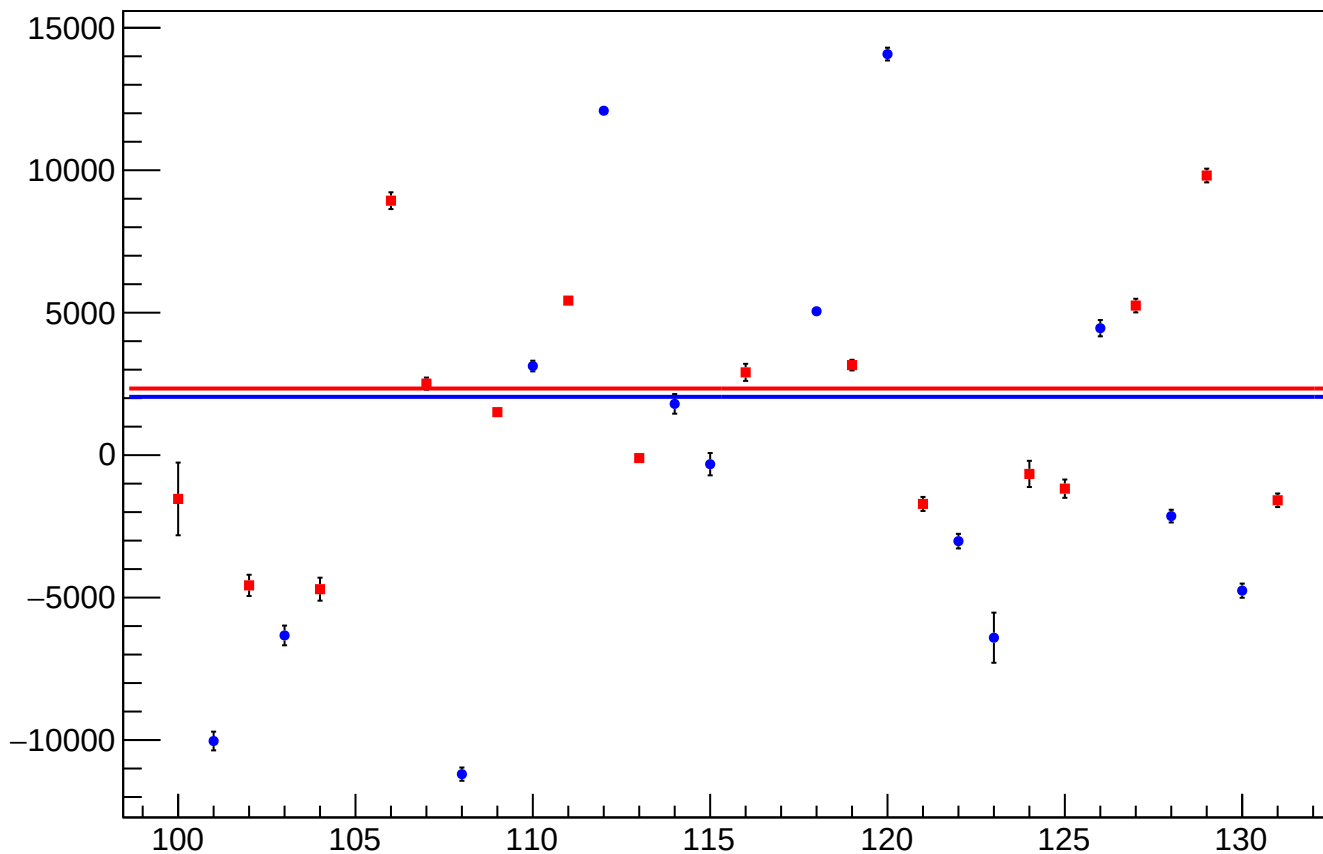
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 112.980 $\pm$ 0.026  $\chi^2$ /NDF: 1438696.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i01WS\_mean vs Slug



Right In: 2046.196+/-65.959  $\chi^2/\text{NDF}$ : 13328.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2338.839+/-60.434  $\chi^2/\text{NDF}$ : 3557.8/15

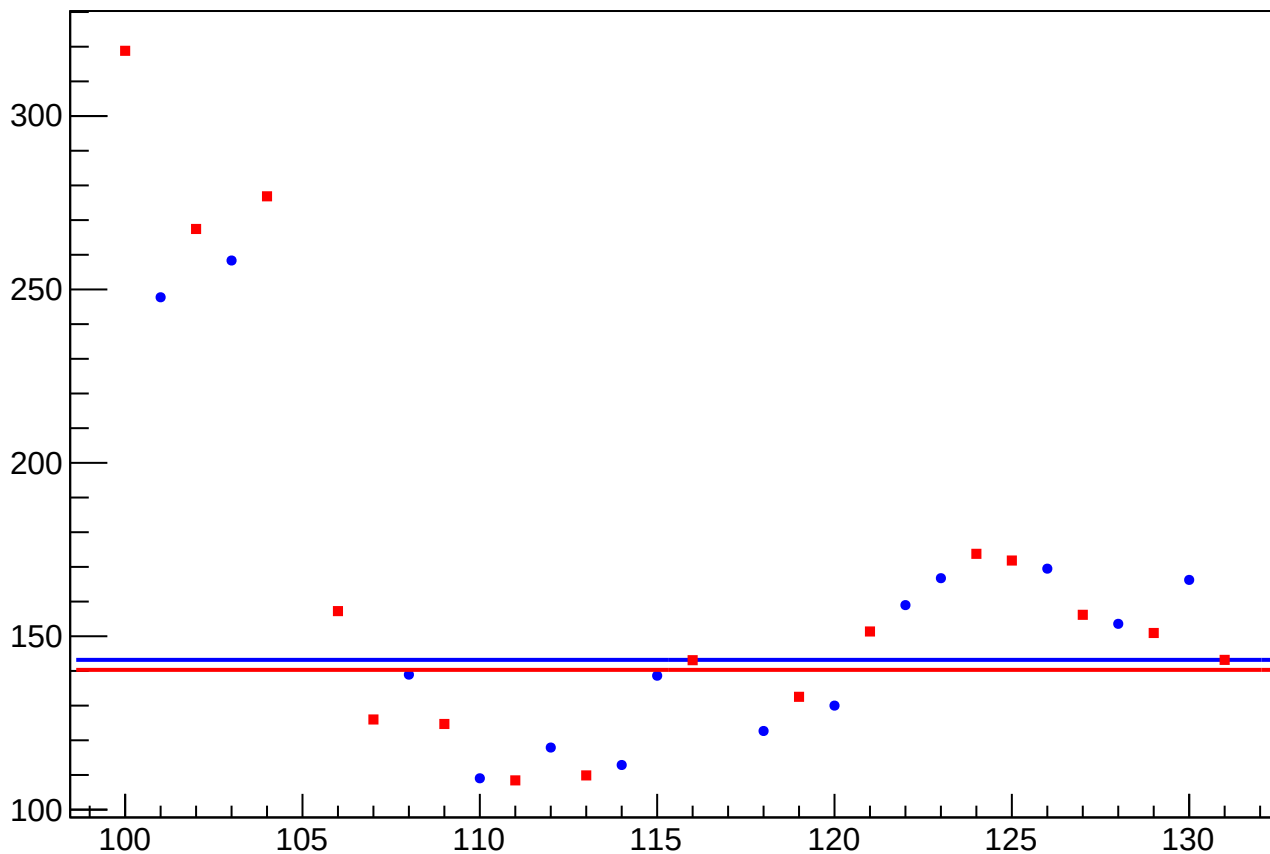
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2205.285+/-44.559  $\chi^2/\text{NDF}$ : 16897.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01WS\_rms vs Slug



Right In: 143.192+/-0.047  $\chi^2/\text{NDF}$ : 630769.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 140.305+/-0.043  $\chi^2/\text{NDF}$ : 719714.5/15

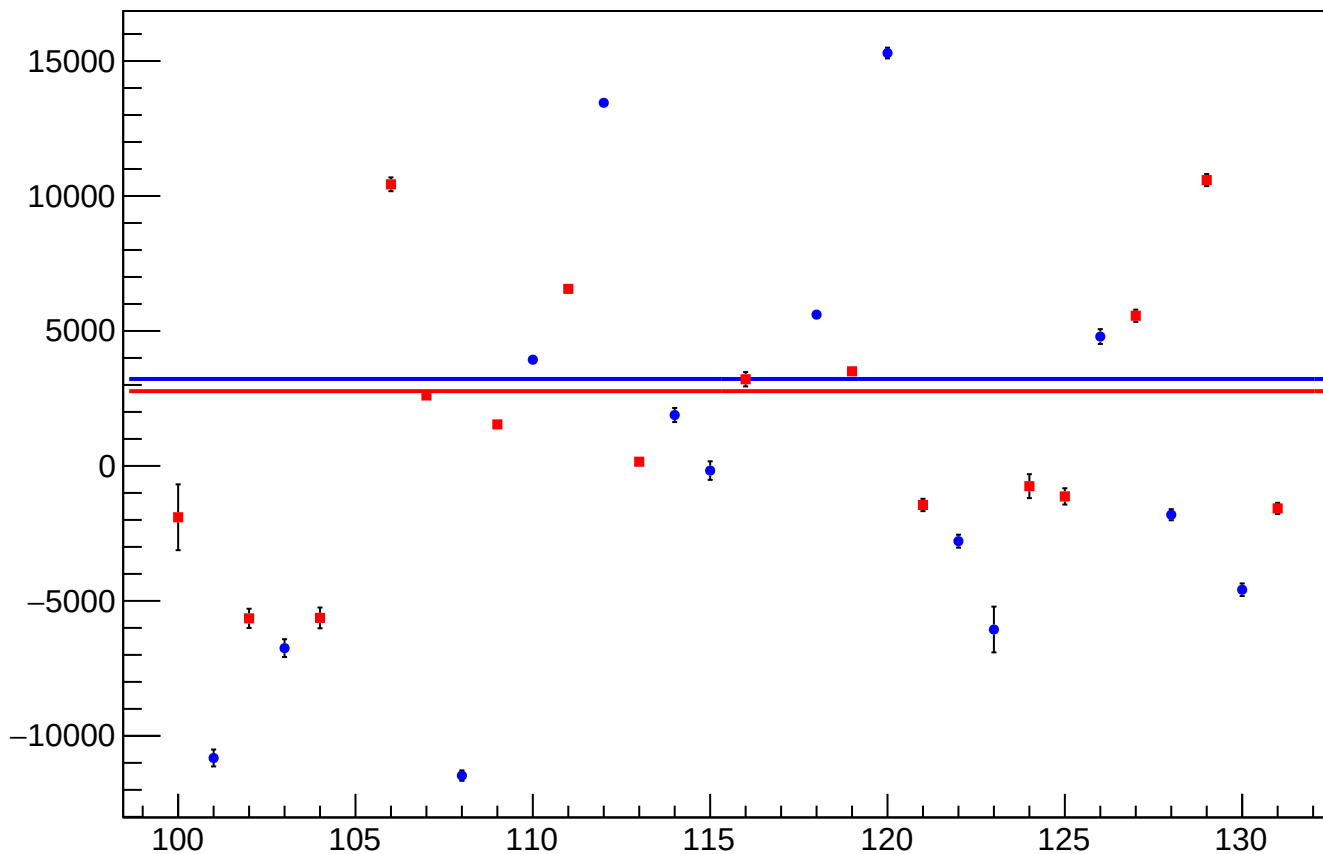
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 141.622+/-0.032  $\chi^2/\text{NDF}$ : 1352567.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01aWS\_mean vs Slug



Right In: 3221.372+/-55.387  $\chi^2/\text{NDF}$ : 21319.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2769.946+/-49.929  $\chi^2/\text{NDF}$ : 5862.5/15

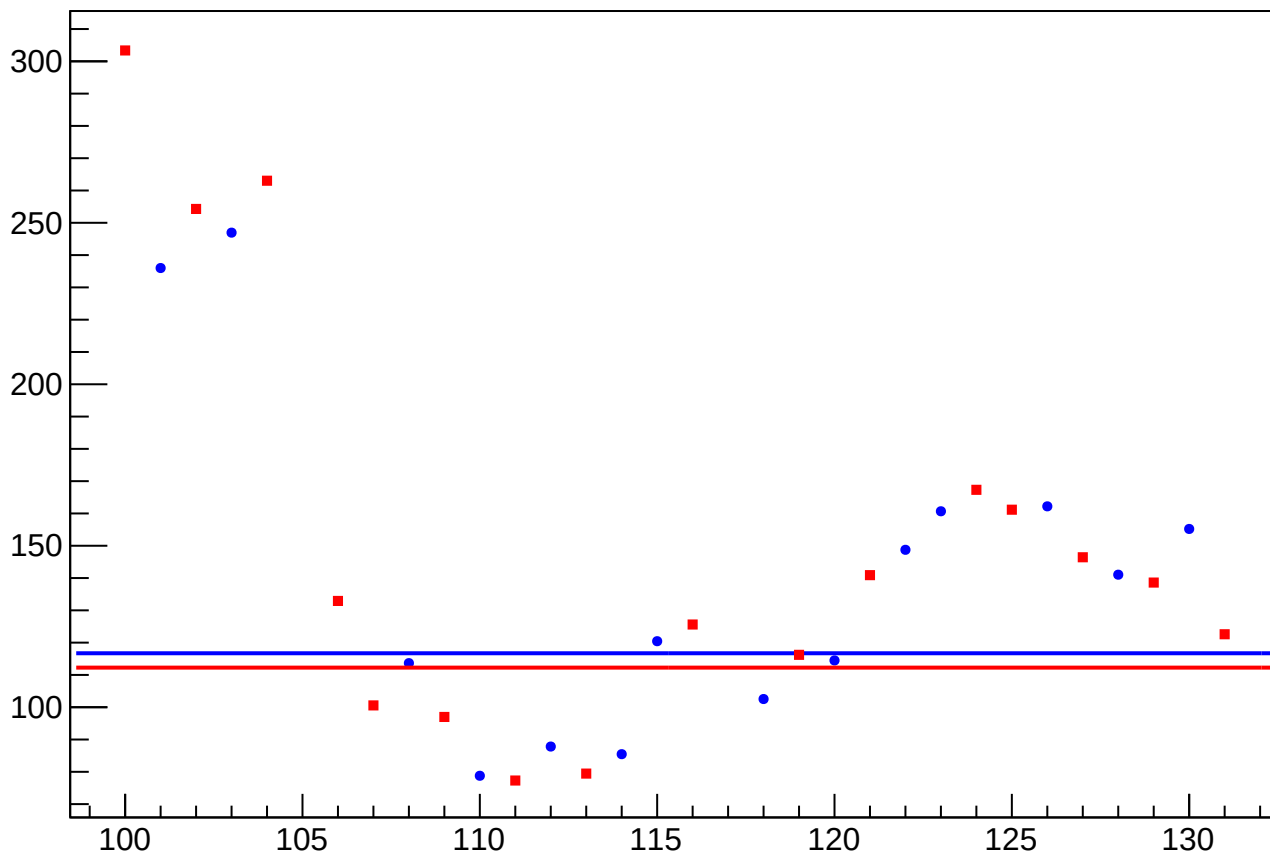
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2972.326+/-37.085  $\chi^2/\text{NDF}$ : 27219.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i01aWS\_rms vs Slug



Right In:  $116.710 \pm 0.039$   $\chi^2/\text{NDF}$ : 1074164.2/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $112.263 \pm 0.035$   $\chi^2/\text{NDF}$ : 1230097.3/15

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

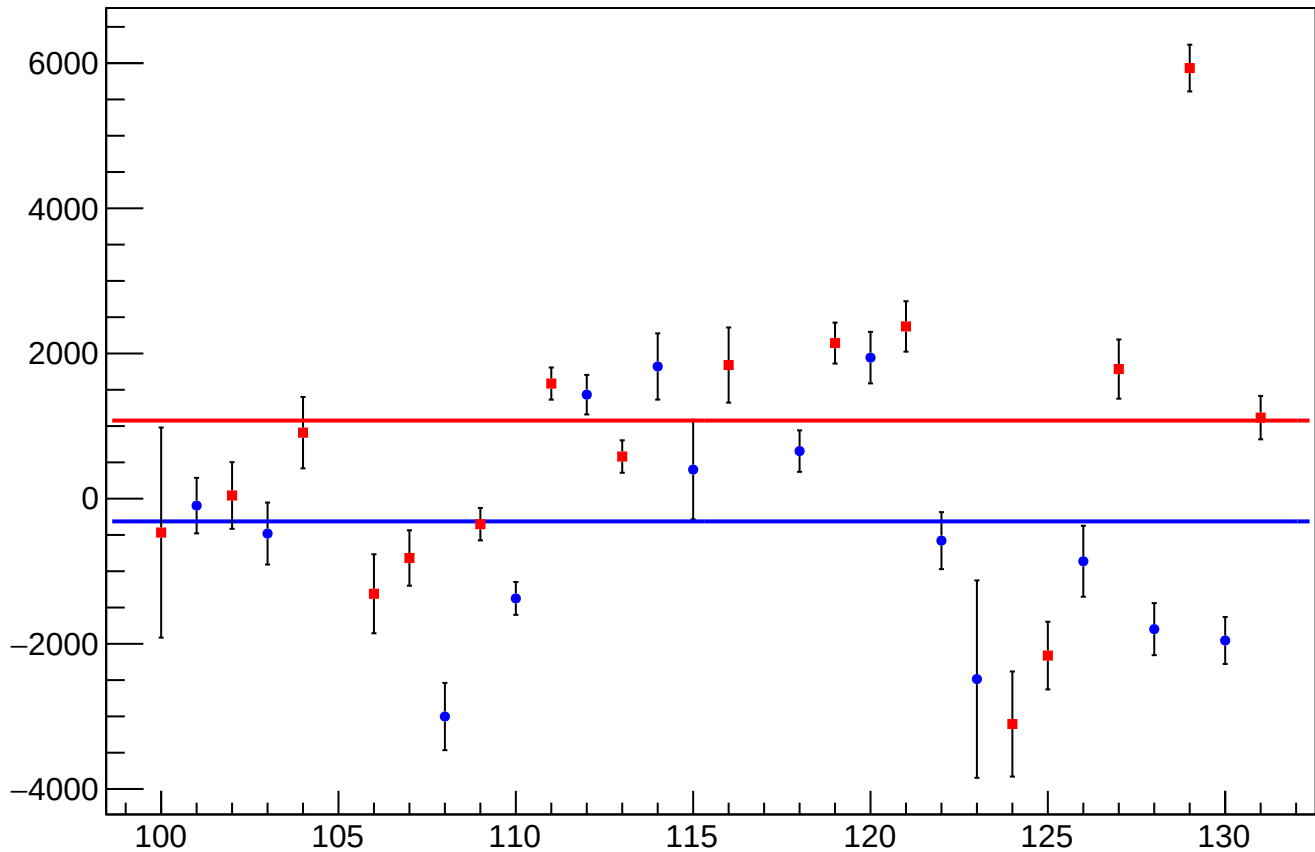
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $114.257 \pm 0.026$   $\chi^2/\text{NDF}$ : 2311375.7/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0l01WS\_mean vs Slug



Right In: -313.364+/-97.302  $\chi^2/\text{NDF}$ : 219.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1076.101+/-85.130  $\chi^2/\text{NDF}$ : 443.6/15

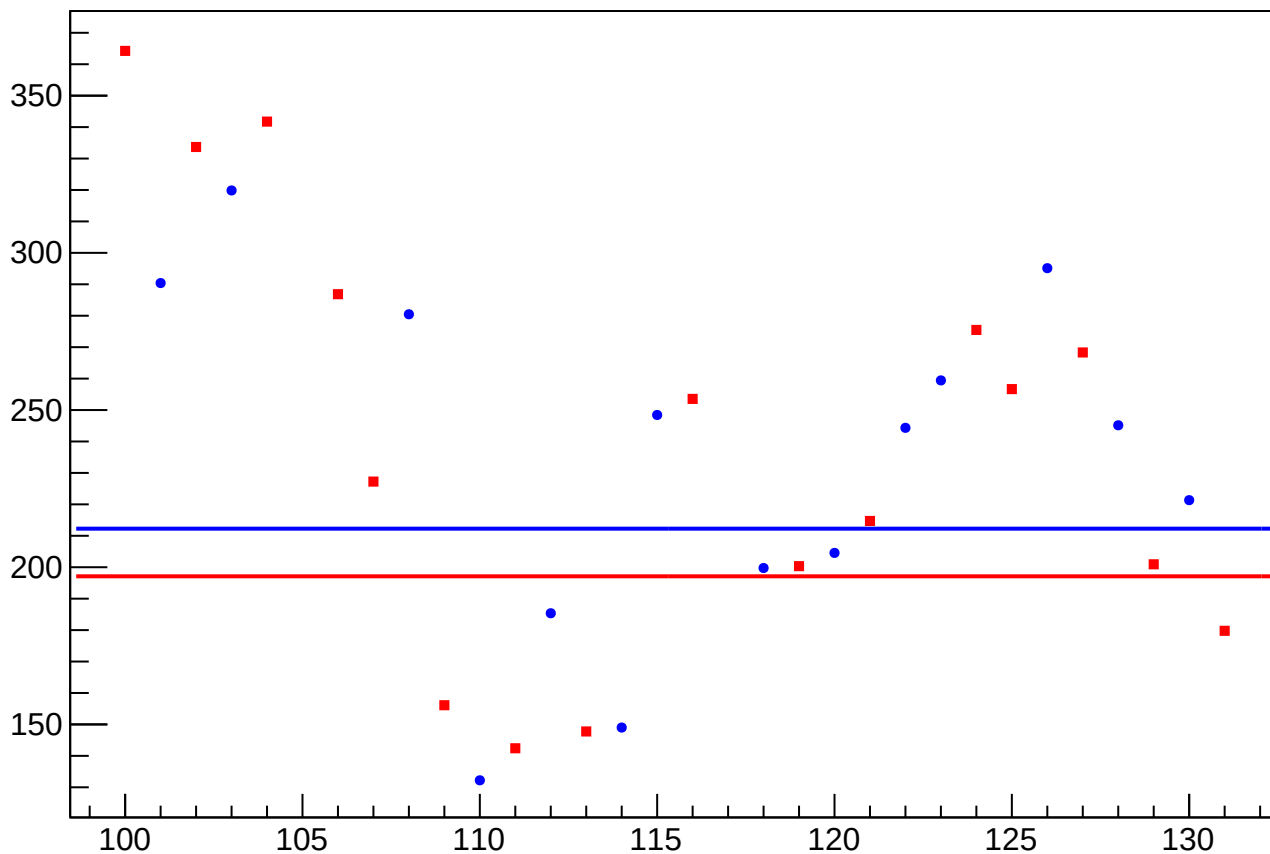
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 473.665+/-64.070  $\chi^2/\text{NDF}$ : 778.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l01WS\_rms vs Slug



Right In:  $212.267 \pm 0.069$   $\chi^2/\text{NDF}: 663475.1/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $197.114 \pm 0.060$   $\chi^2/\text{NDF}: 883700.6/15$

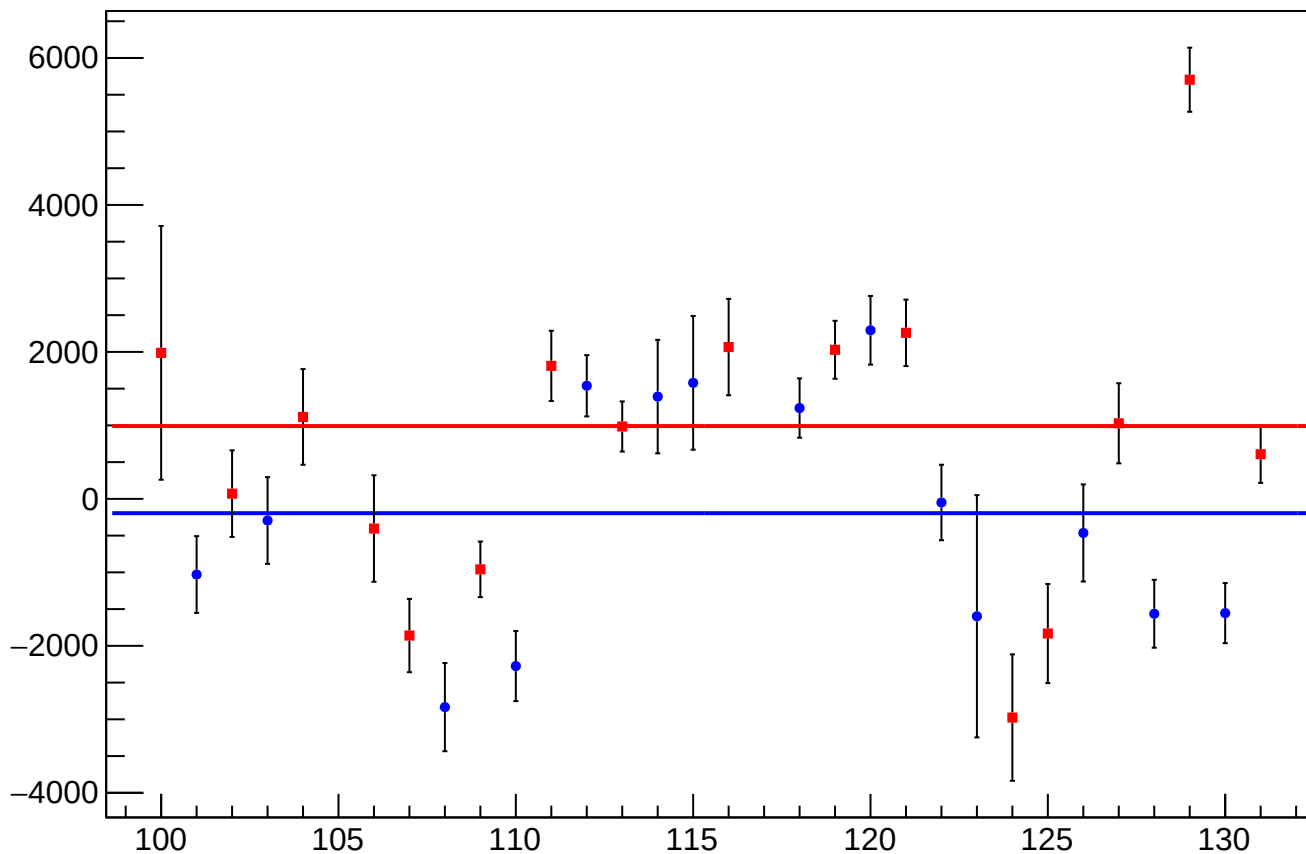
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $203.684 \pm 0.045$   $\chi^2/\text{NDF}: 1574649.5/29$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# asym\_bpm0l02WS\_mean vs Slug



Right In: -194.749+/-141.182  $\chi^2/\text{NDF}$ : 127.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 990.804+/-125.144  $\chi^2/\text{NDF}$ : 242.6/15

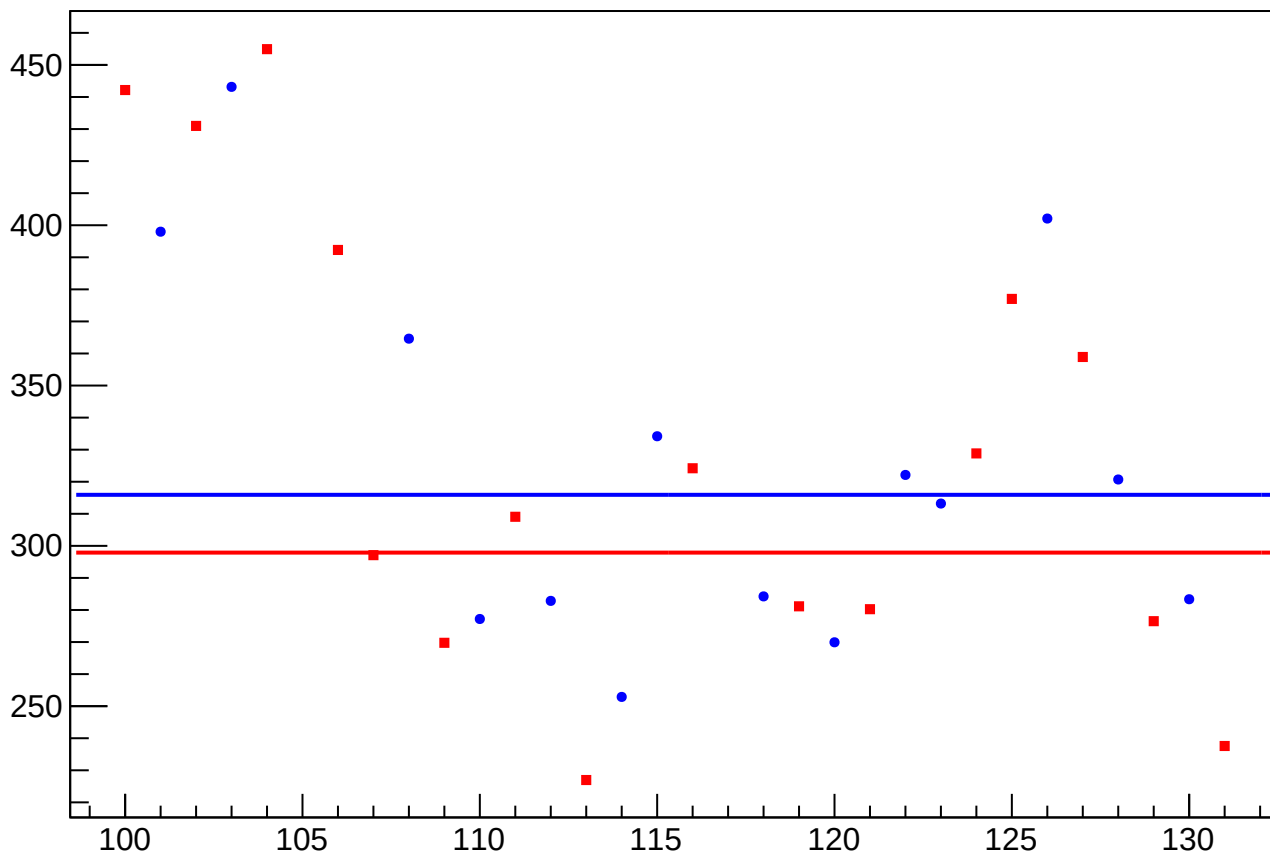
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 469.163+/-93.649  $\chi^2/\text{NDF}$ : 410.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l02WS\_rms vs Slug



Right In: 315.920 $\pm$ 0.100  $\chi^2$ /NDF: 274270.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 297.897 $\pm$ 0.088  $\chi^2$ /NDF: 482576.4/15

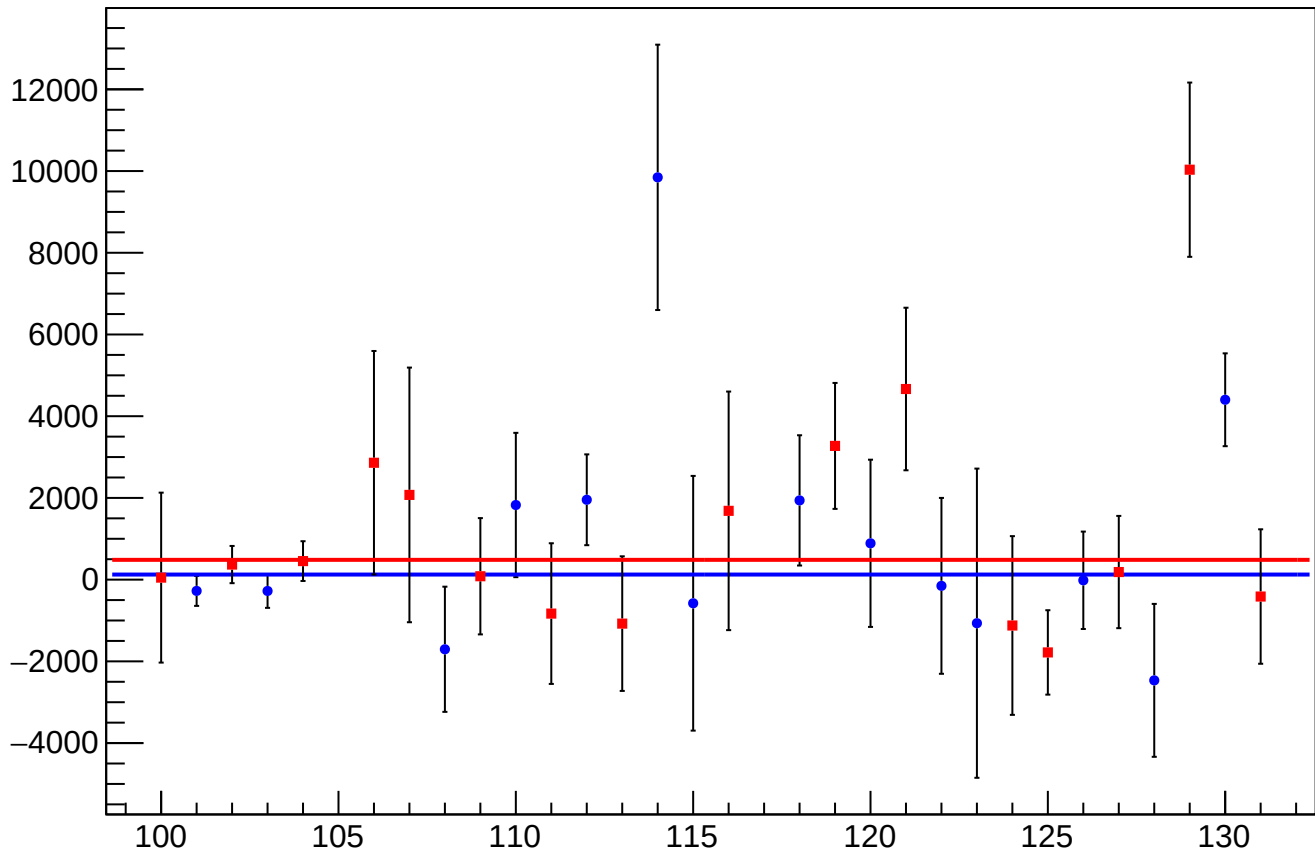
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 305.827 $\pm$ 0.066  $\chi^2$ /NDF: 775099.3/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l03WS\_mean vs Slug



Right In: 124.569+/-237.545  $\chi^2/\text{NDF}$ : 33.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 484.423+/-269.488  $\chi^2/\text{NDF}$ : 36.3/15

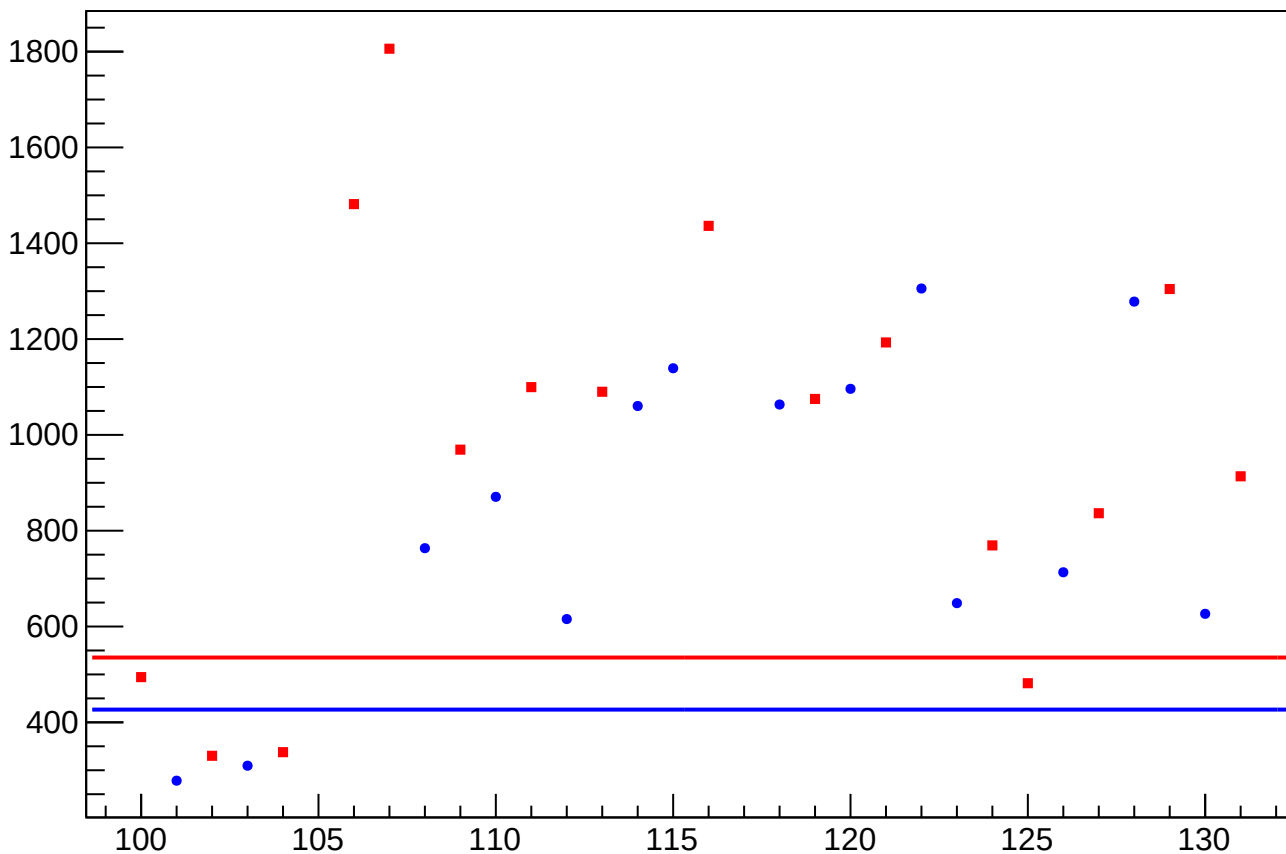
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 281.915+/-178.199  $\chi^2/\text{NDF}$ : 71.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l03WS\_rms vs Slug



Right In: 426.601+/-0.168  $\chi^2/\text{NDF}$ : 2415101.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 535.278+/-0.191  $\chi^2/\text{NDF}$ : 3080552.6/15

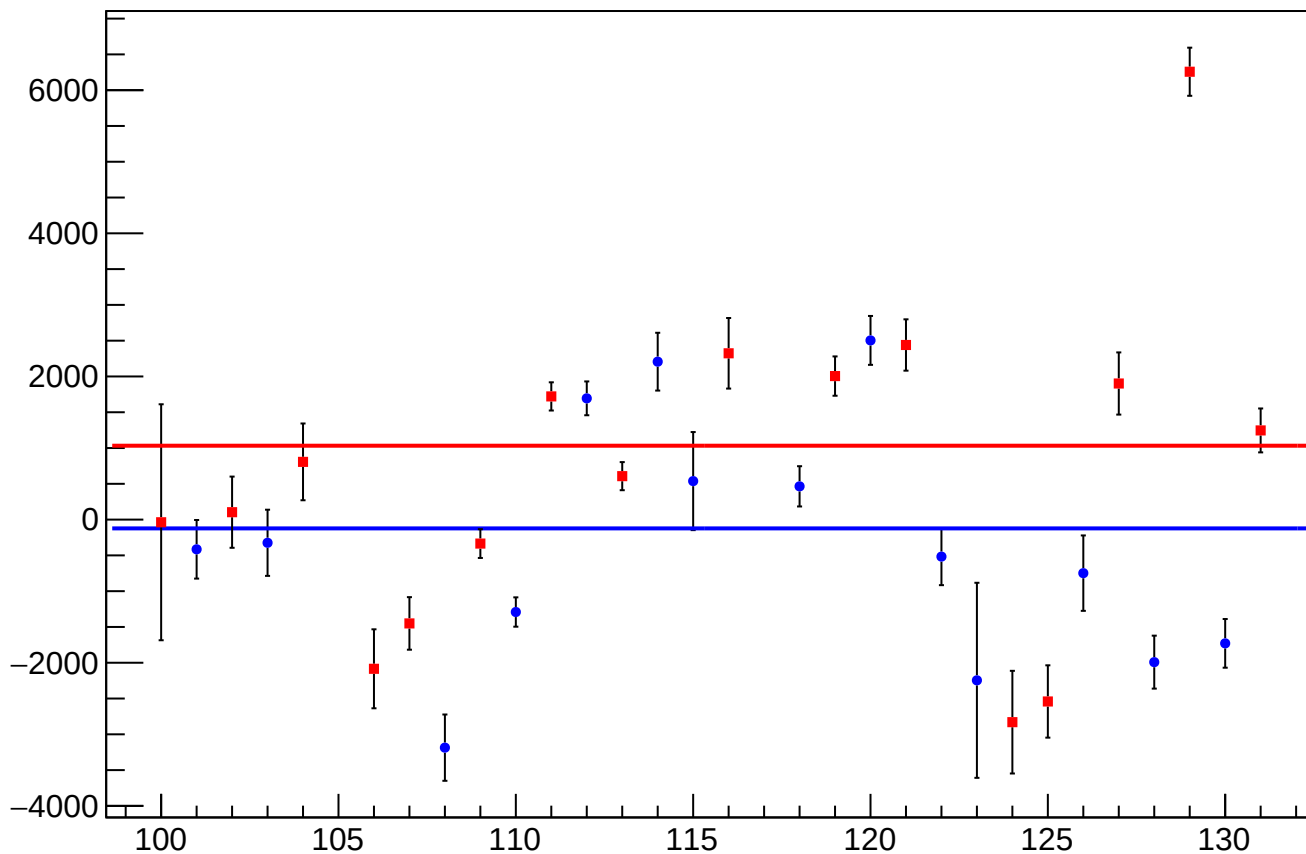
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 474.120+/-0.126  $\chi^2/\text{NDF}$ : 5678691.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l04WS\_mean vs Slug



Right In: -122.907+/-94.129  $\chi^2/\text{NDF}$ : 286.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1032.413+/-81.434  $\chi^2/\text{NDF}$ : 504.6/15

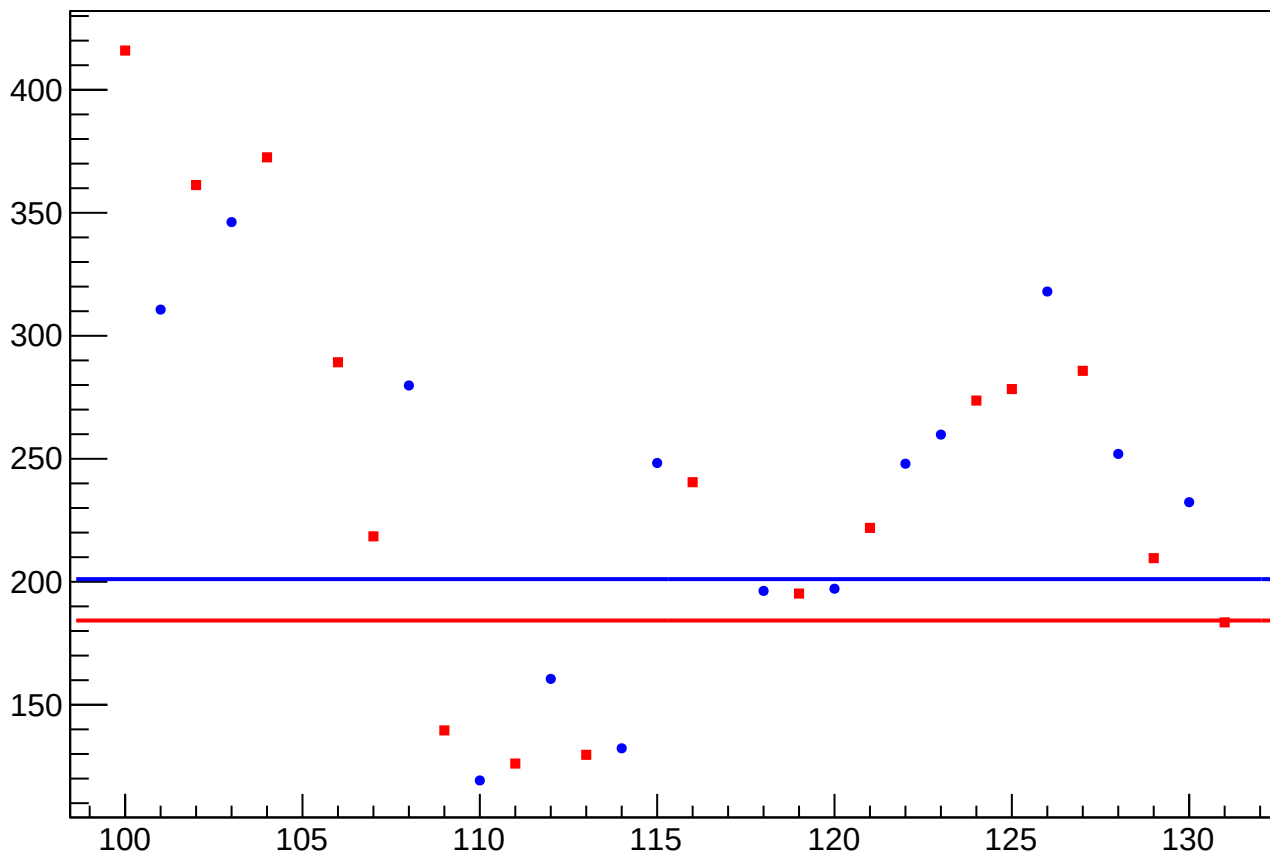
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 537.862+/-61.585  $\chi^2/\text{NDF}$ : 877.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l04WS\_rms vs Slug



Right In: 201.082+/-0.067  $\chi^2/\text{NDF}$ : 1028944.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 184.258+/-0.058  $\chi^2/\text{NDF}$ : 1329017.0/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

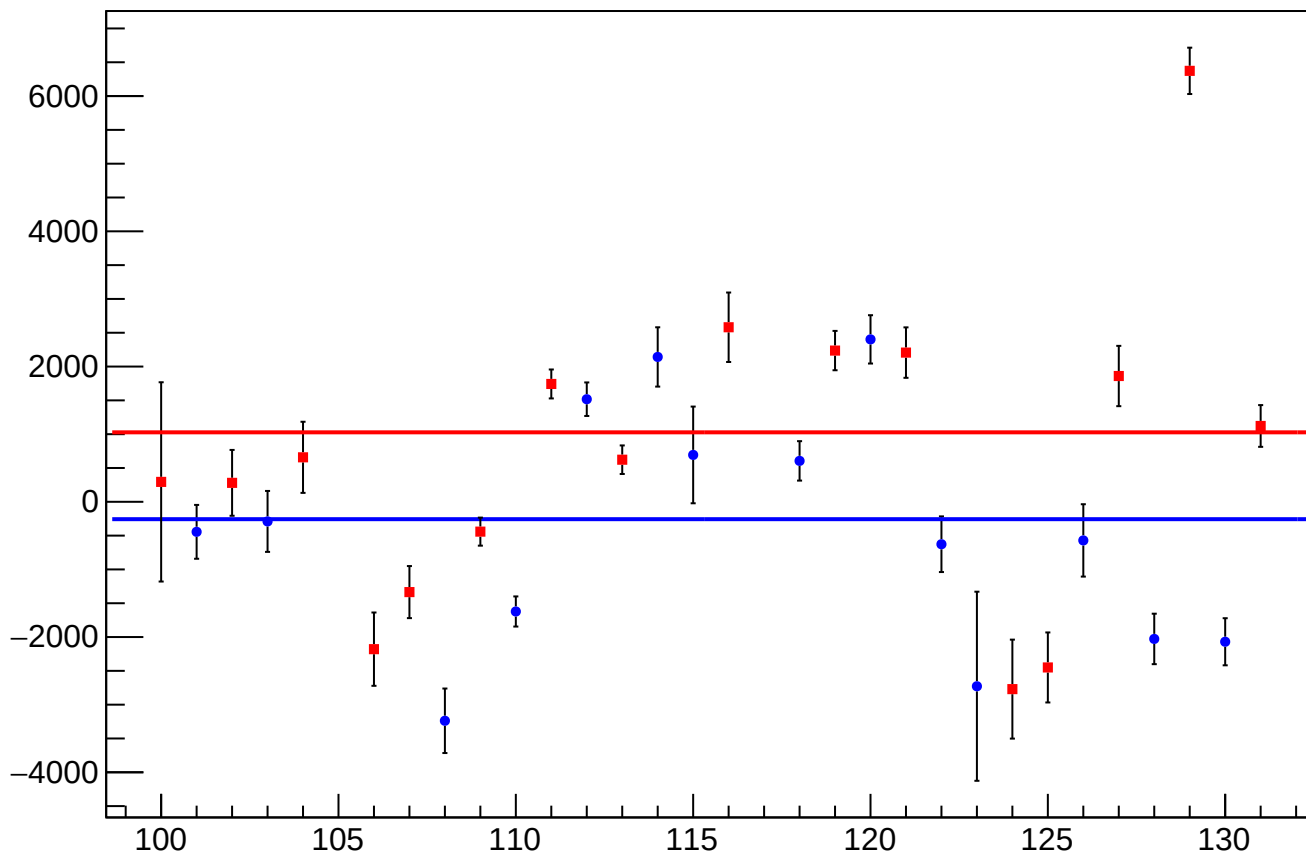
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 191.460+/-0.044  $\chi^2/\text{NDF}$ : 2394501.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0l05WS\_mean vs Slug



Right In: -256.932+/-98.000  $\chi^2/\text{NDF}$ : 277.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1027.317+/-85.008  $\chi^2/\text{NDF}$ : 496.0/15

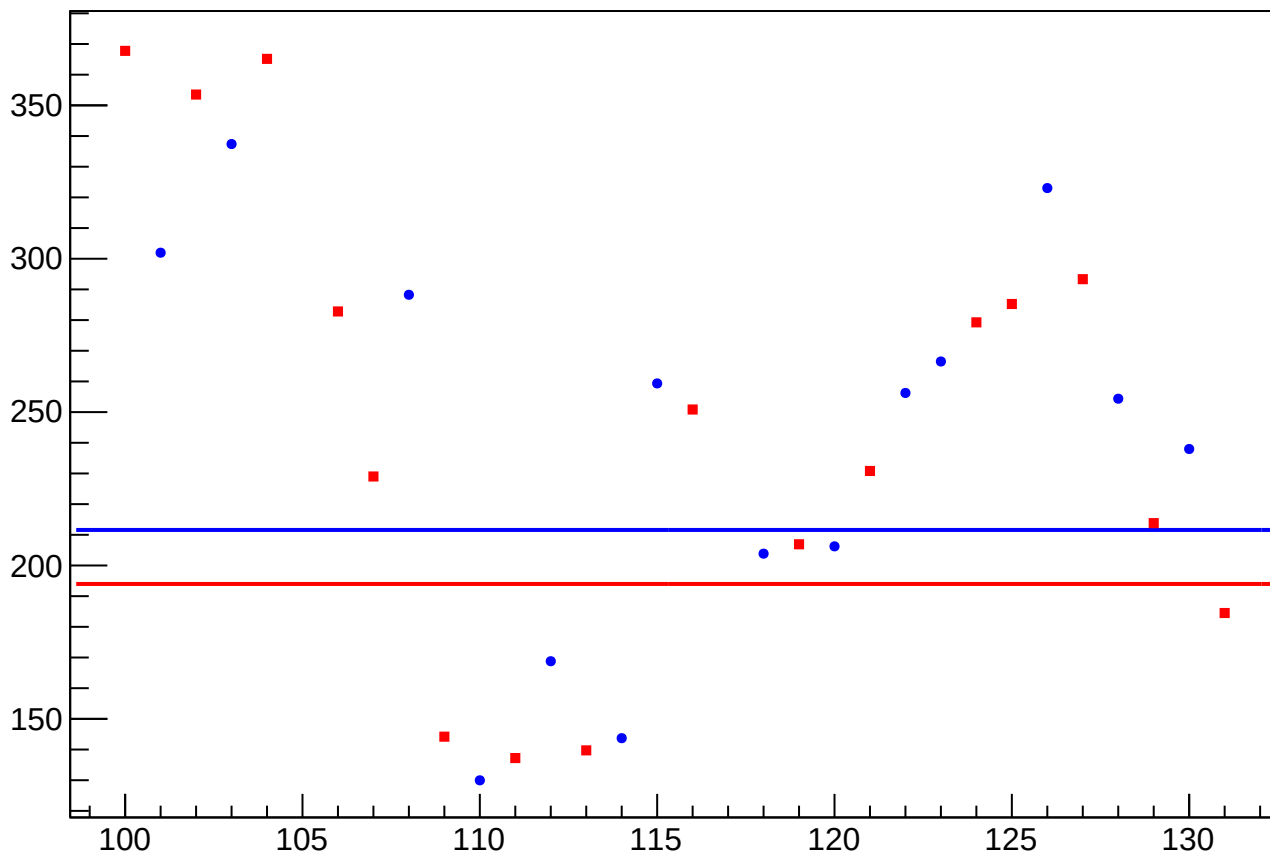
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 475.910+/-64.215  $\chi^2/\text{NDF}$ : 871.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l05WS\_rms vs Slug



Right In: 211.585 $\pm$ 0.069  $\chi^2$ /NDF: 848425.2/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 193.979 $\pm$ 0.060  $\chi^2$ /NDF: 1157879.8/15

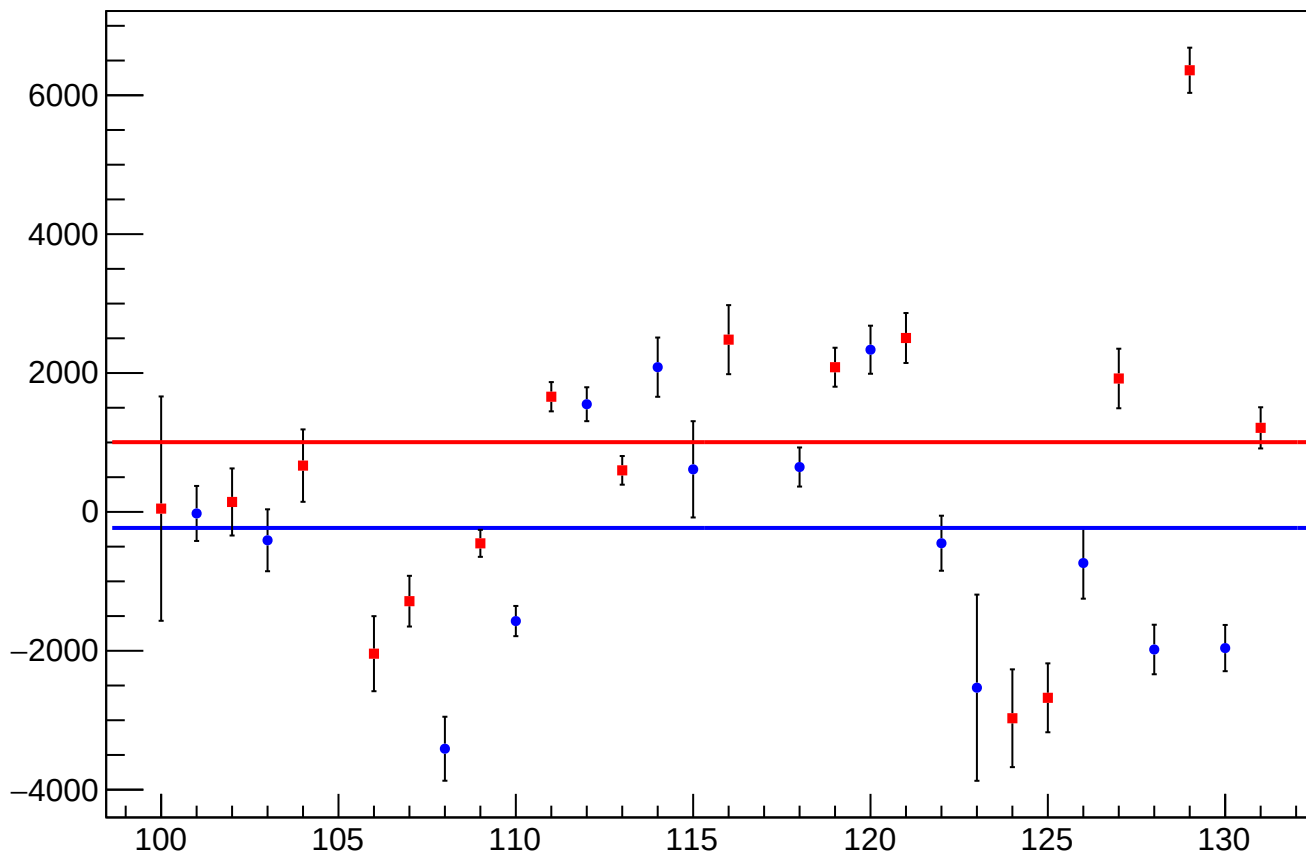
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 201.539 $\pm$ 0.045  $\chi^2$ /NDF: 2043139.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0l06WS\_mean vs Slug



Right In: -230.881+/-95.278  $\chi^2/\text{NDF}$ : 290.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1004.397+/-82.054  $\chi^2/\text{NDF}$ : 548.6/15

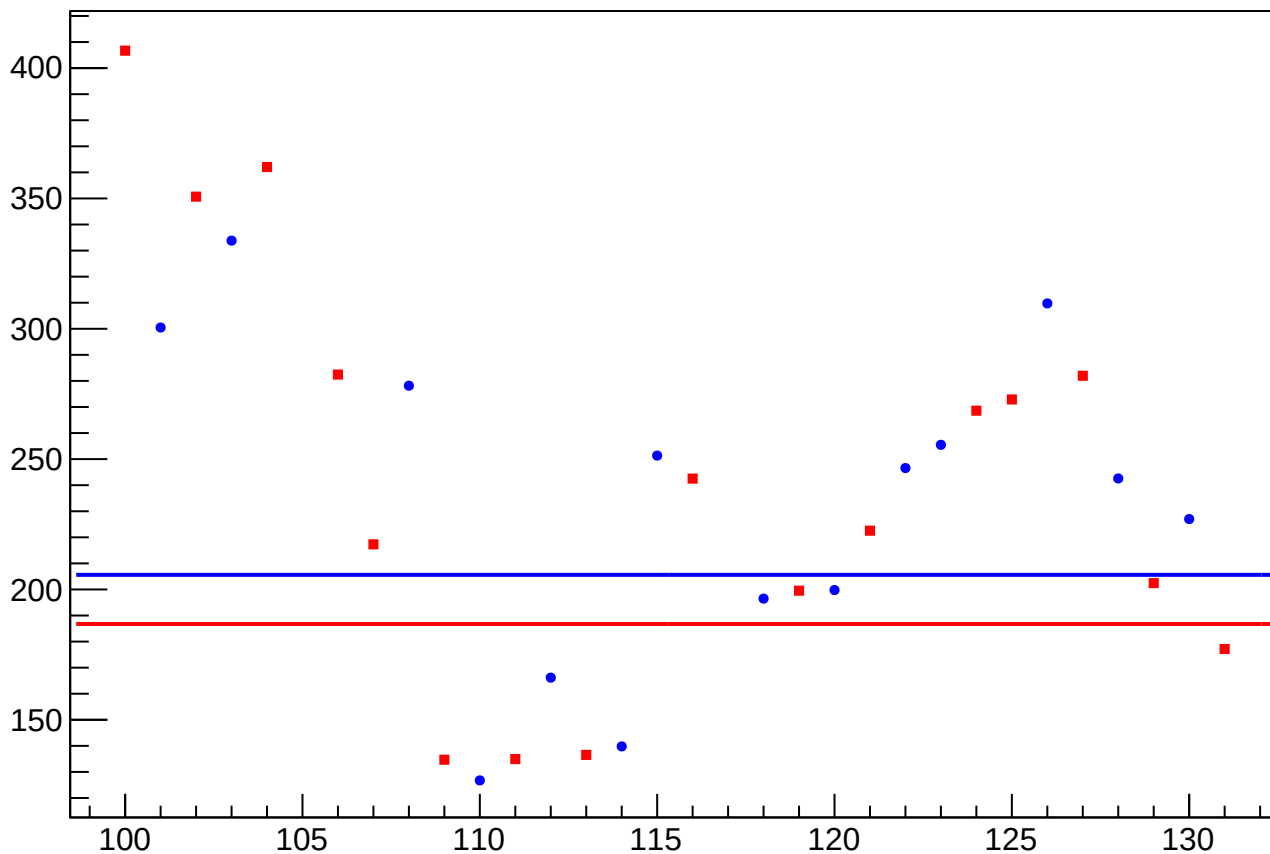
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 478.366+/-62.175  $\chi^2/\text{NDF}$ : 935.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l06WS\_rms vs Slug



Right In: 205.608+/-0.067  $\chi^2/\text{NDF}$ : 839782.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 186.761+/-0.058  $\chi^2/\text{NDF}$ : 1194744.3/15

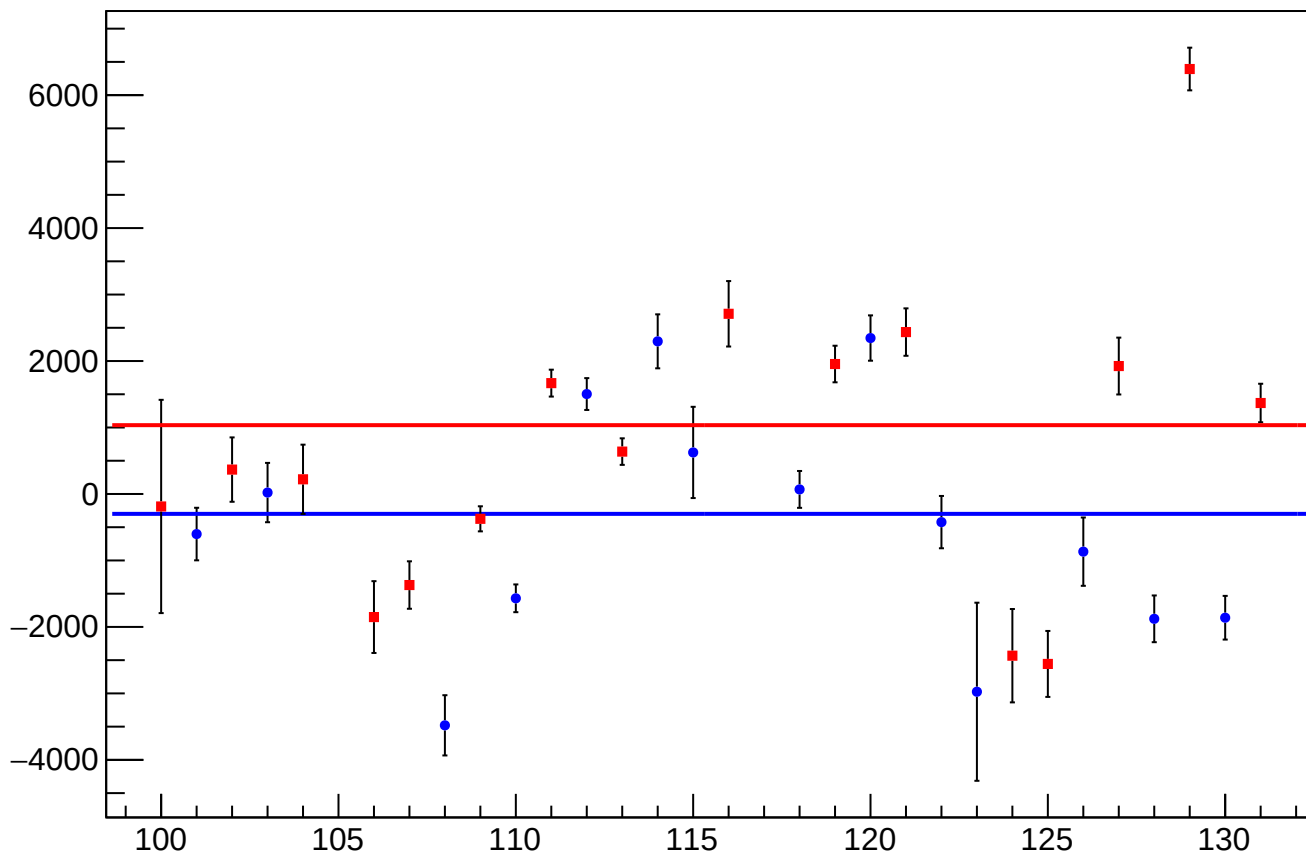
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 194.787+/-0.044  $\chi^2/\text{NDF}$ : 2079458.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l07WS\_mean vs Slug



Right In: -299.107+/-93.410  $\chi^2/\text{NDF}$ : 296.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1035.201+/-80.162  $\chi^2/\text{NDF}$ : 547.6/15

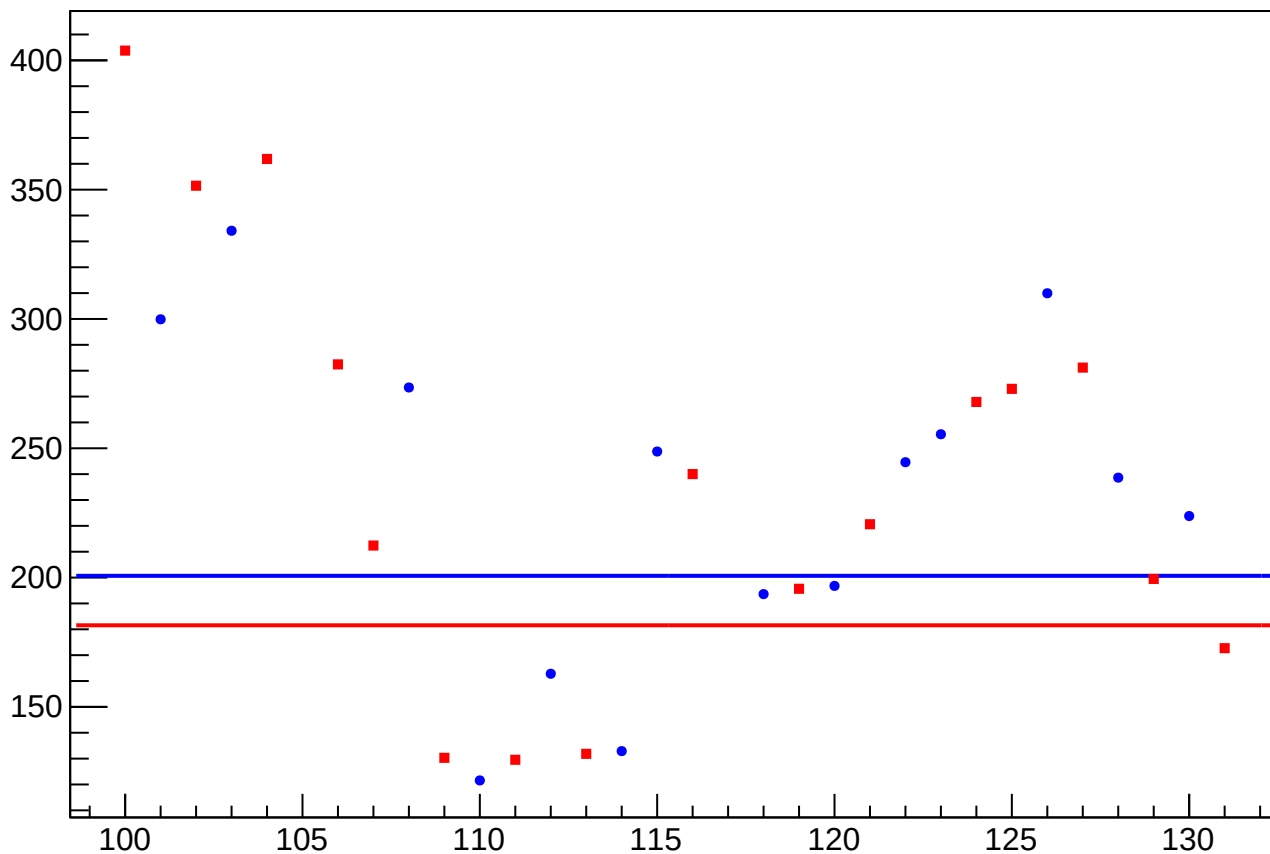
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 469.305+/-60.832  $\chi^2/\text{NDF}$ : 961.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l07WS\_rms vs Slug



Right In: 200.679+/-0.066  $\chi^2/\text{NDF}$ : 912512.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 181.549+/-0.057  $\chi^2/\text{NDF}$ : 1285211.0/15

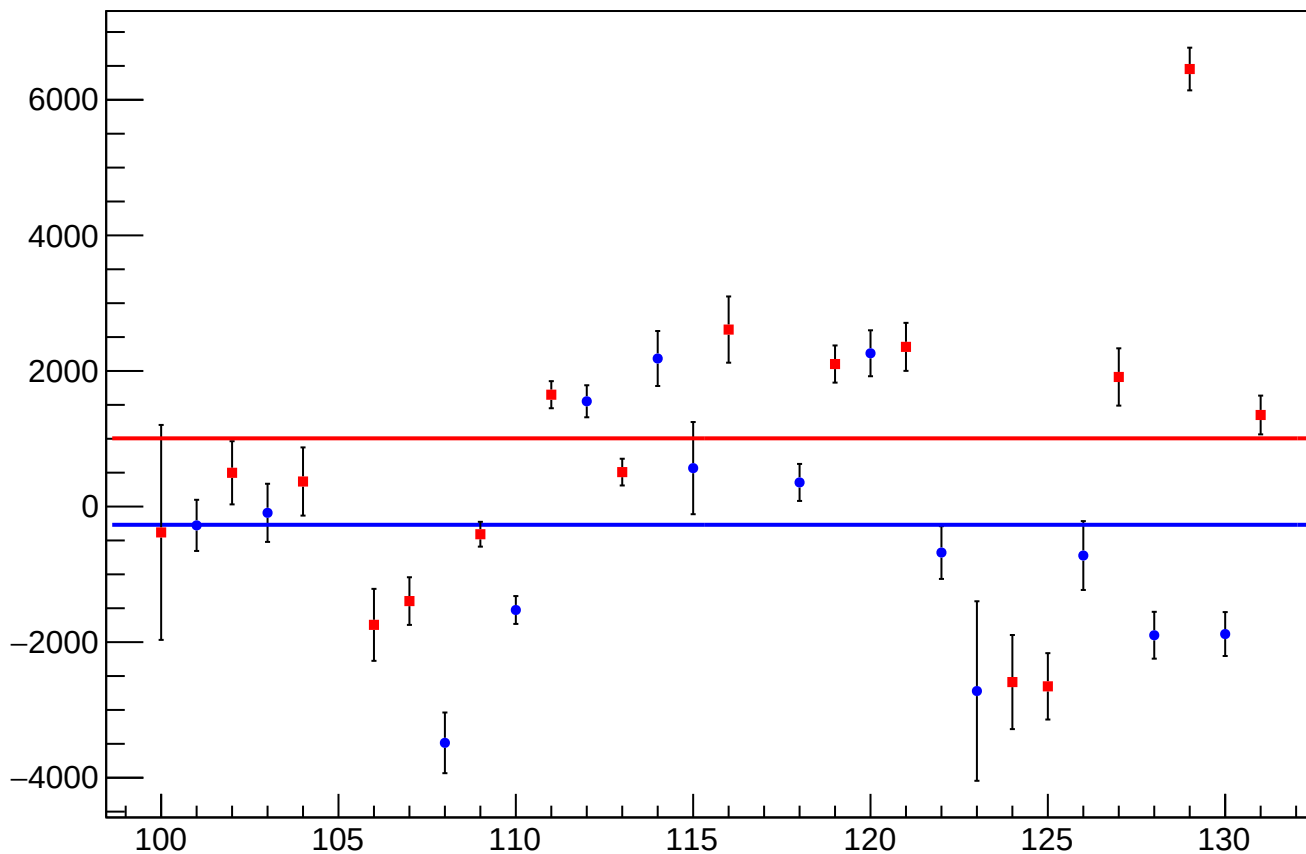
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 189.662+/-0.043  $\chi^2/\text{NDF}$ : 2246029.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l08WS\_mean vs Slug



Right In: -269.035+/-91.907  $\chi^2/\text{NDF}$ : 300.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1006.272+/-78.829  $\chi^2/\text{NDF}$ : 583.0/15

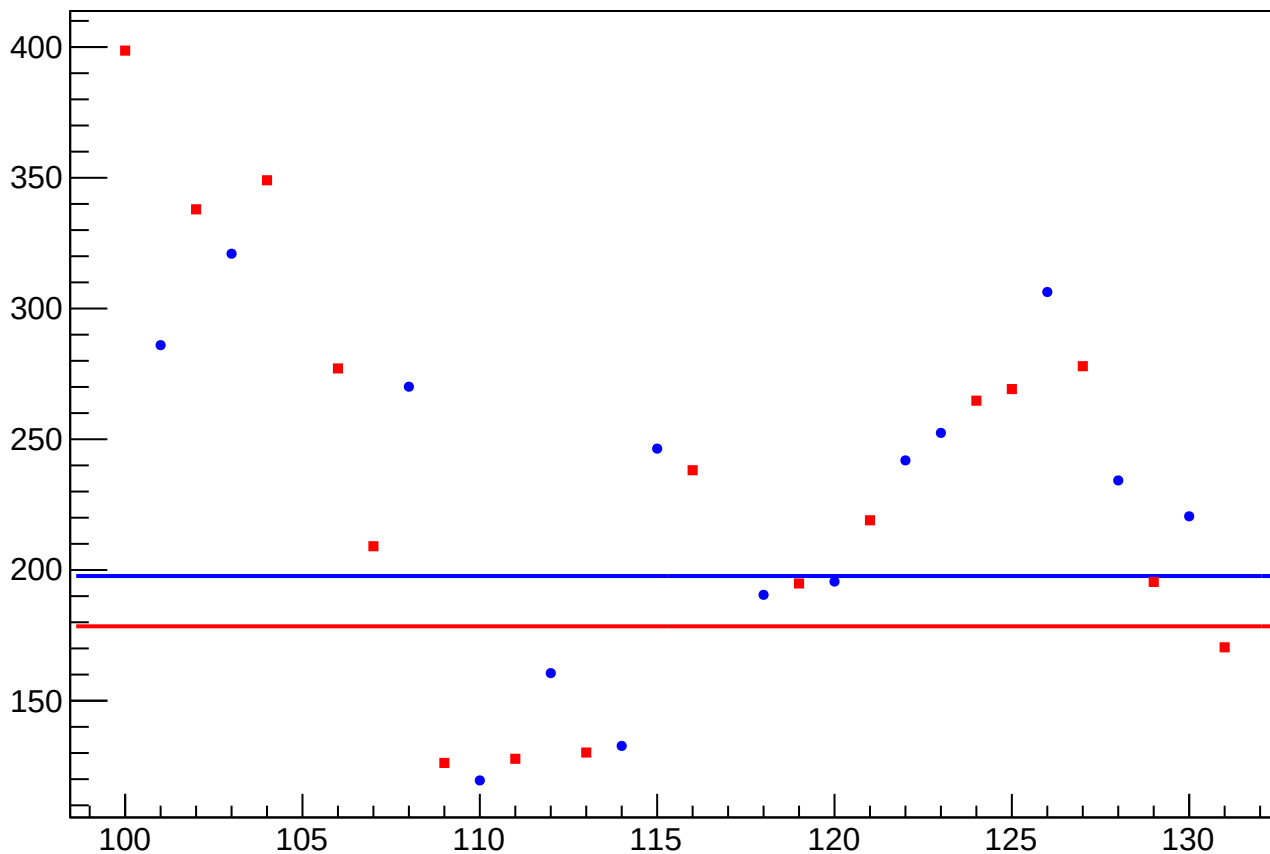
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 465.734+/-59.835  $\chi^2/\text{NDF}$ : 994.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l08WS\_rms vs Slug



Right In: 197.687+/-0.065  $\chi^2/\text{NDF}$ : 882172.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 178.462+/-0.056  $\chi^2/\text{NDF}$ : 1279920.1/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

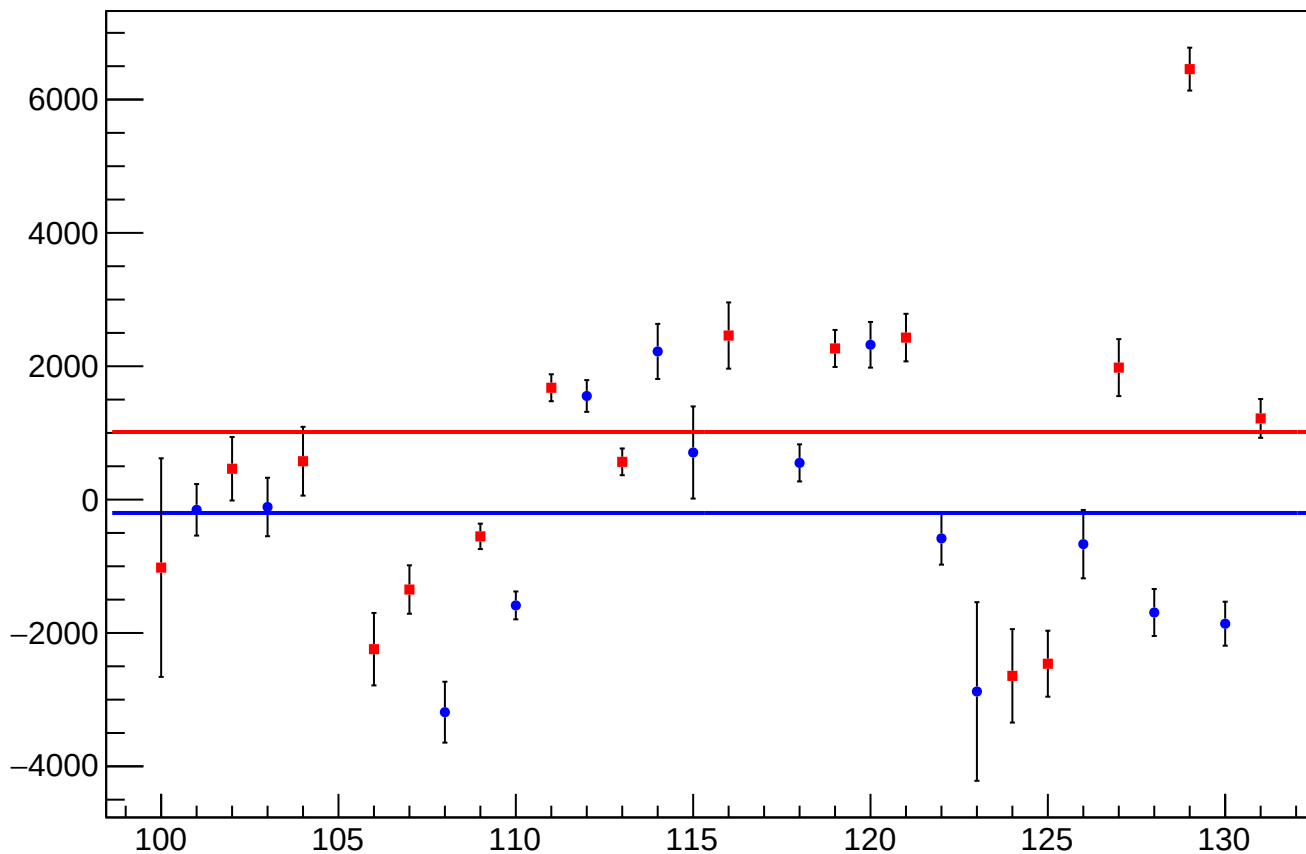
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 186.610+/-0.042  $\chi^2/\text{NDF}$ : 2212513.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0l09WS\_mean vs Slug



Right In: -200.293+/-93.409  $\chi^2/\text{NDF}$ : 287.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1014.117+/-80.475  $\chi^2/\text{NDF}$ : 578.0/15

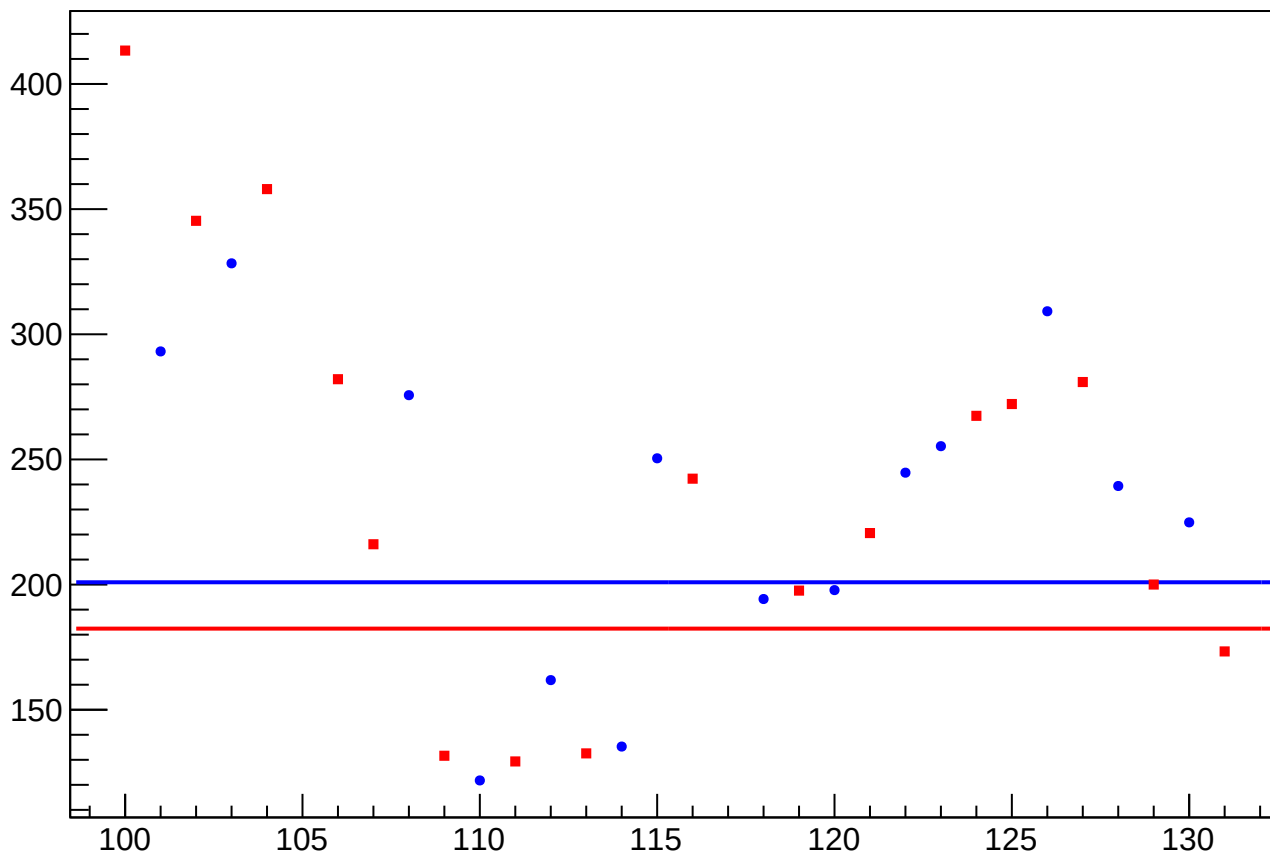
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 496.745+/-60.969  $\chi^2/\text{NDF}$ : 962.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l09WS\_rms vs Slug



Right In: 200.927+/-0.066  $\chi^2/\text{NDF}$ : 890164.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 182.414+/-0.057  $\chi^2/\text{NDF}$ : 1261813.5/15

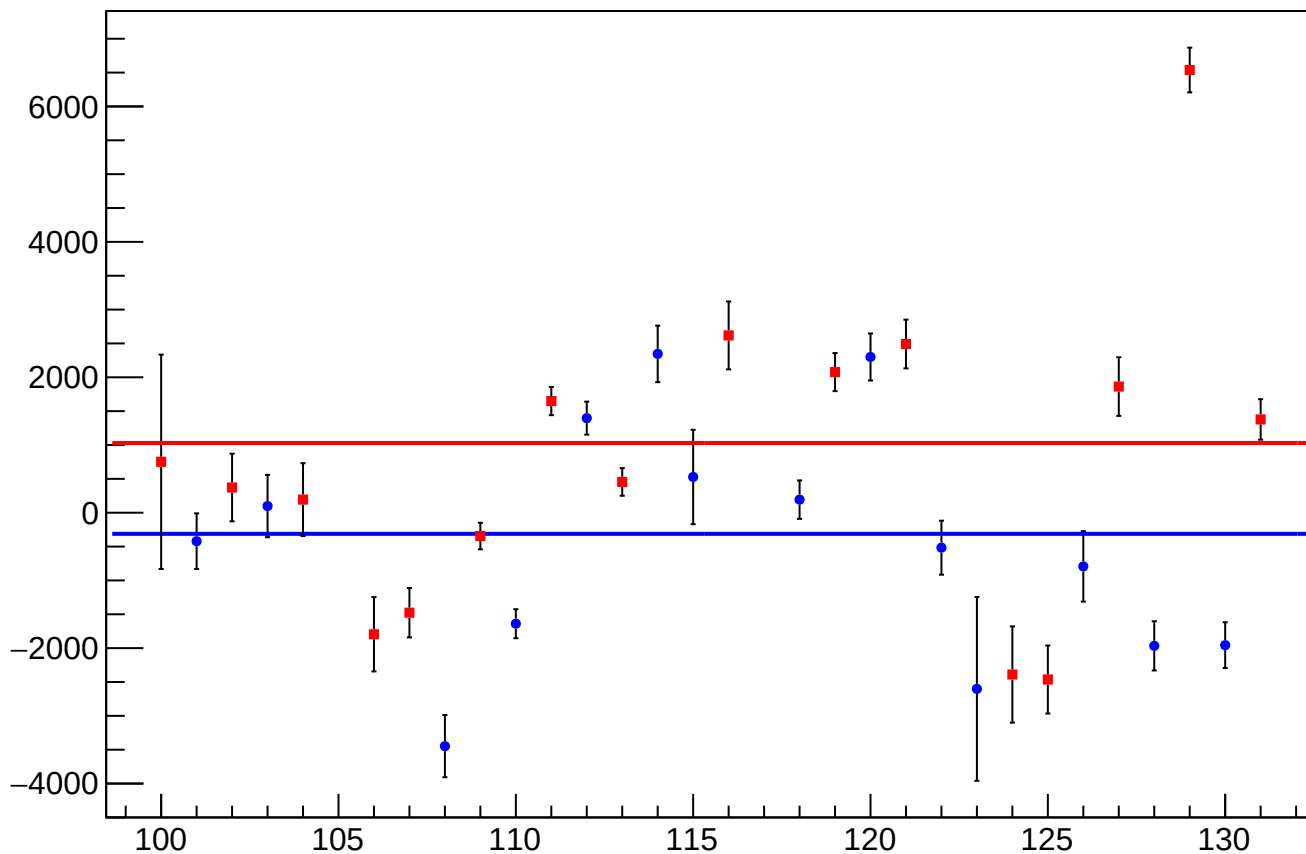
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 190.301+/-0.043  $\chi^2/\text{NDF}$ : 2197068.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l10WS\_mean vs Slug



Right In: -311.810+/-95.660  $\chi^2/\text{NDF}$ : 284.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1029.072+/-82.177  $\chi^2/\text{NDF}$ : 539.4/15

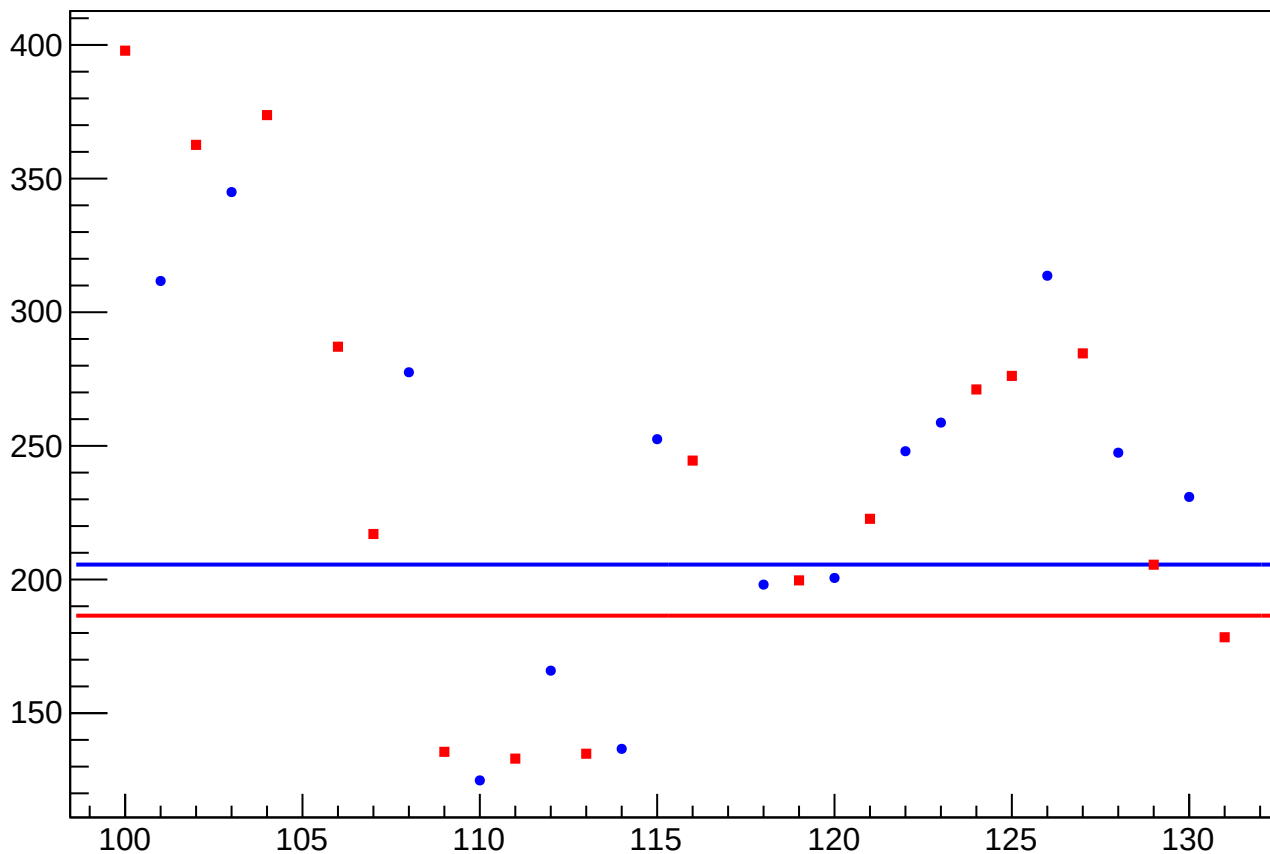
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 459.707+/-62.335  $\chi^2/\text{NDF}$ : 937.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0l10WS\_rms vs Slug



Right In: 205.590+/-0.068  $\chi^2/\text{NDF}$ : 917517.2/13

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

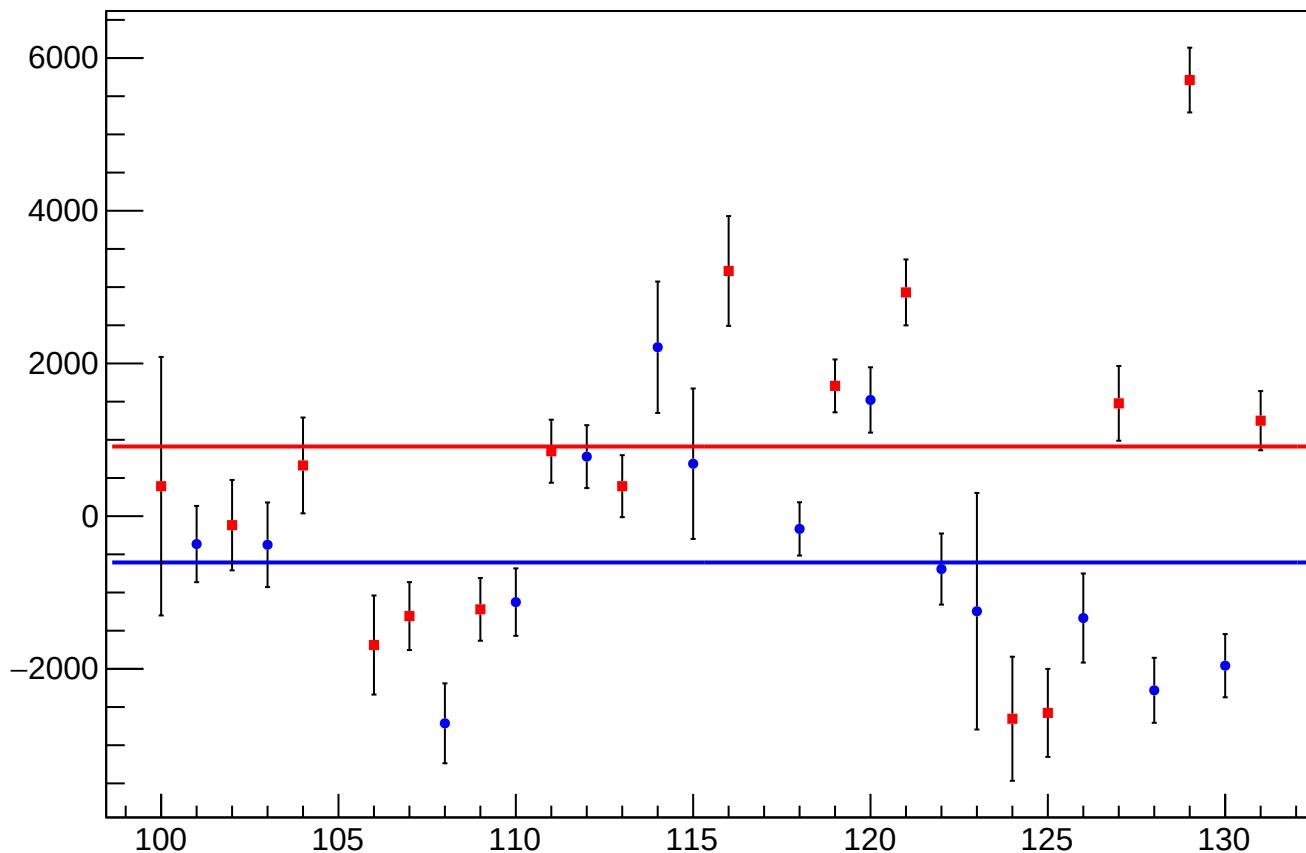
Right Out: 186.476+/-0.058  $\chi^2/\text{NDF}$ : 1259587.4/15

All: 194.592+/-0.044  $\chi^2/\text{NDF}$ : 2223047.2/29

- 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

# asym\_bpm0r03WS\_mean vs Slug



Right In: -606.531+/-132.103  $\chi^2/\text{NDF}$ : 96.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 912.317+/-121.644  $\chi^2/\text{NDF}$ : 296.3/15

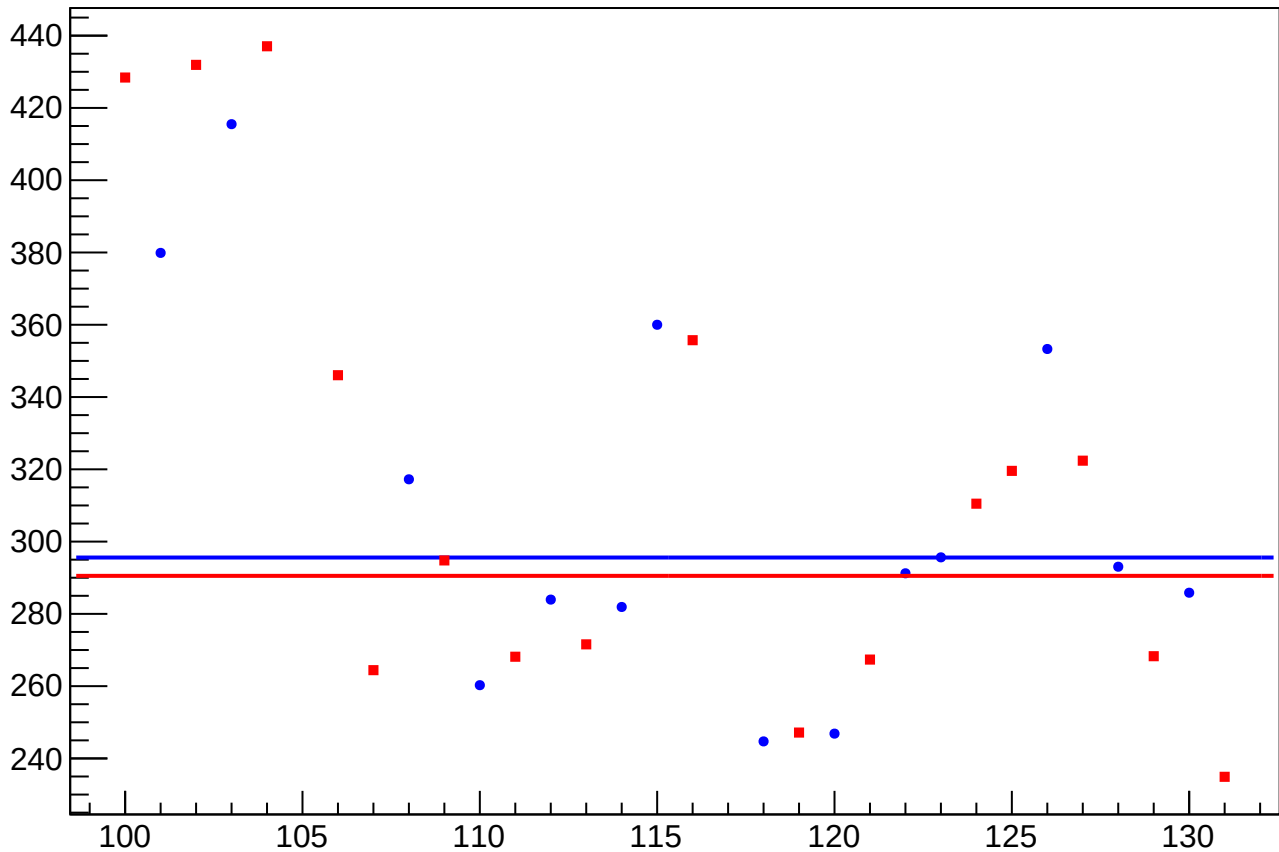
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 215.392+/-89.485  $\chi^2/\text{NDF}$ : 463.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0r03WS\_rms vs Slug



Right In: 295.593+/-0.093  $\chi^2/\text{NDF}$ : 266886.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 290.522+/-0.086  $\chi^2/\text{NDF}$ : 383474.4/15

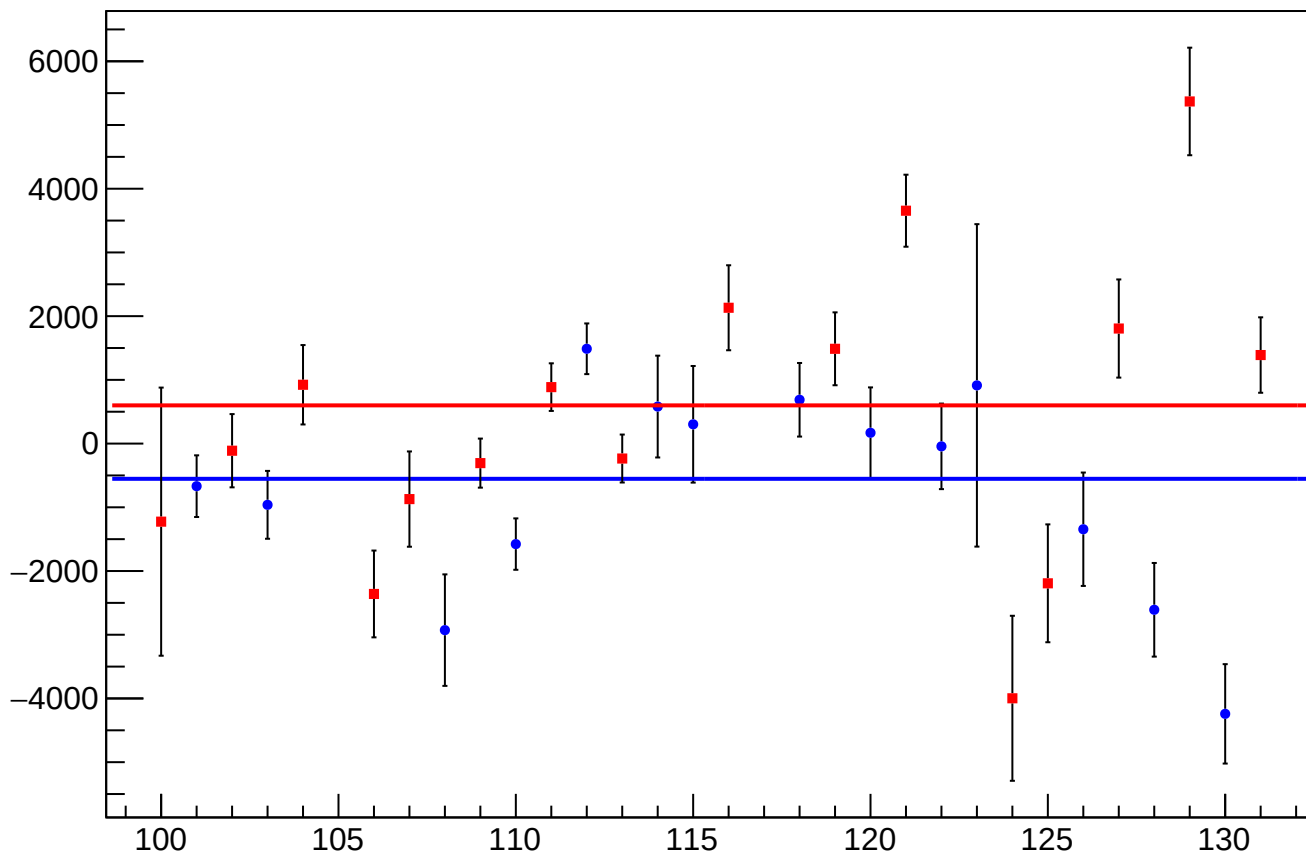
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 292.849+/-0.063  $\chi^2/\text{NDF}$ : 651955.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0r05WS\_mean vs Slug



Right In: -552.950+/-165.680  $\chi^2/\text{NDF}$ : 81.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 599.651+/-146.039  $\chi^2/\text{NDF}$ : 131.1/15

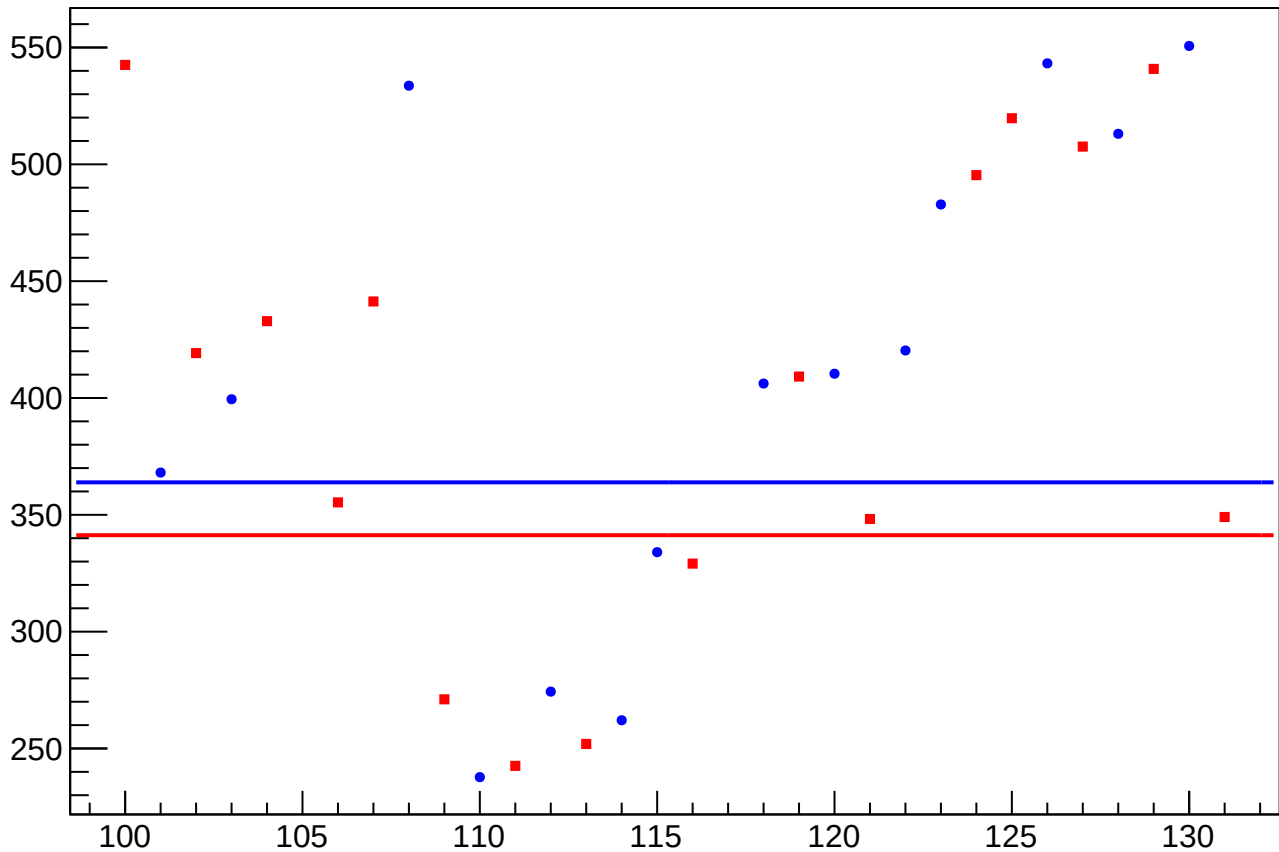
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 95.689+/-109.554  $\chi^2/\text{NDF}$ : 239.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0r05WS\_rms vs Slug



Right In: 363.898+/-0.117  $\chi^2/\text{NDF}$ : 732089.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 341.268+/-0.103  $\chi^2/\text{NDF}$ : 791160.7/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

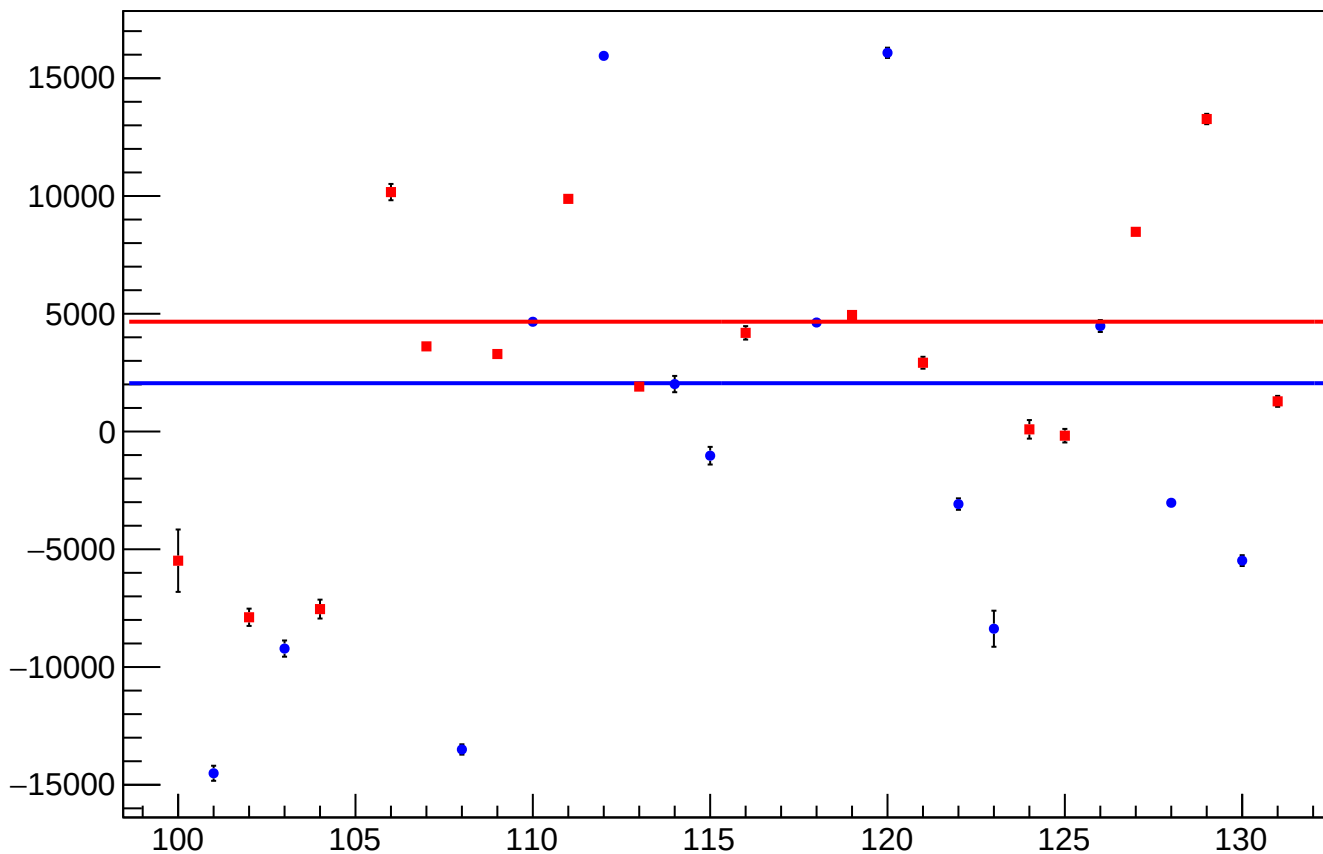
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 351.163+/-0.077  $\chi^2/\text{NDF}$ : 1544246.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm0i02WS\_mean vs Slug



Right In: 2051.441+/-62.336  $\chi^2/\text{NDF}$ : 22430.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 4662.792+/-57.513  $\chi^2/\text{NDF}$ : 6453.3/15

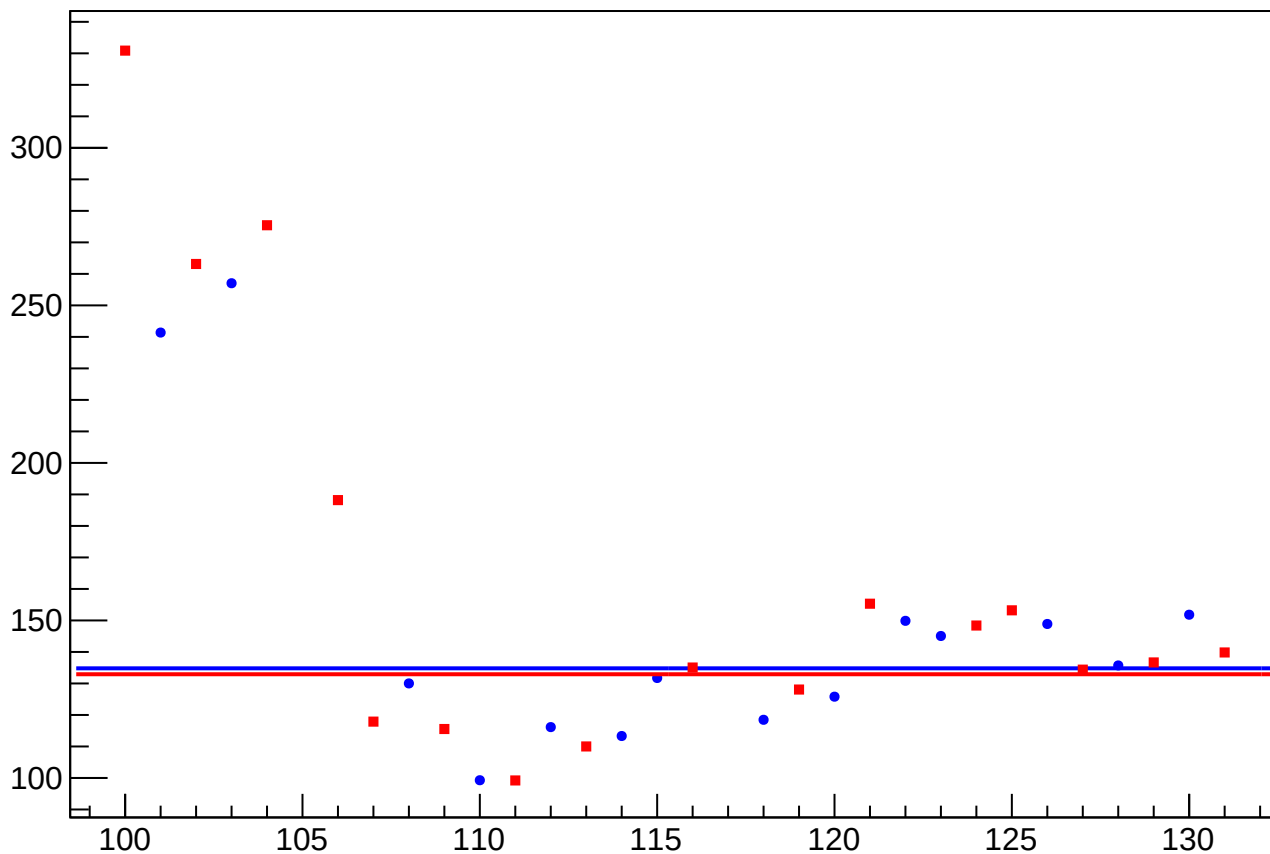
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3462.042+/-42.270  $\chi^2/\text{NDF}$ : 29831.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02WS\_rms vs Slug



Right In: 134.801+/-0.044  $\chi^2/\text{NDF}$ : 640679.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 132.922+/-0.041  $\chi^2/\text{NDF}$ : 798519.7/15

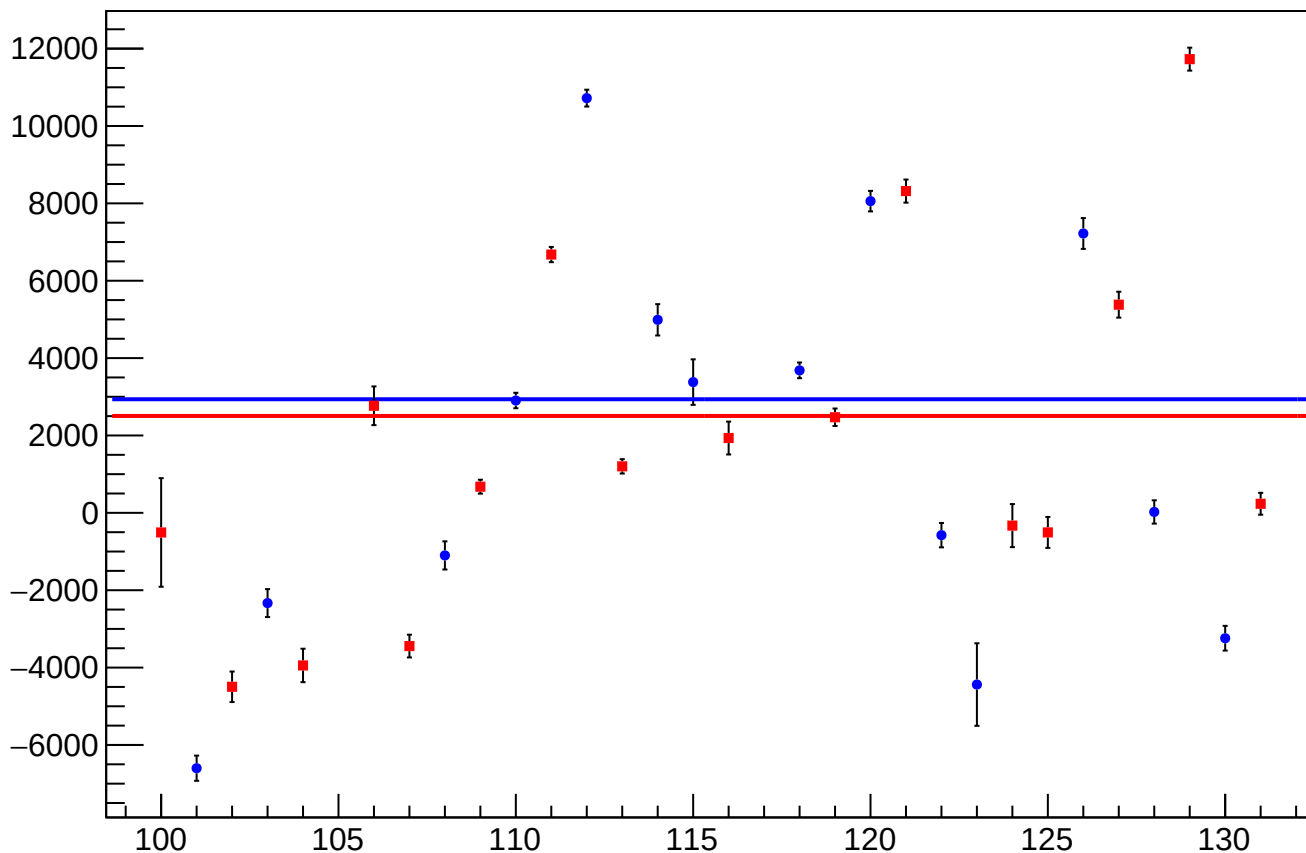
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 133.786+/-0.030  $\chi^2/\text{NDF}$ : 1440180.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_mean vs Slug



Right In: 2936.309+/-79.956  $\chi^2/\text{NDF}$ : 3638.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2504.820+/-72.157  $\chi^2/\text{NDF}$ : 3120.4/15

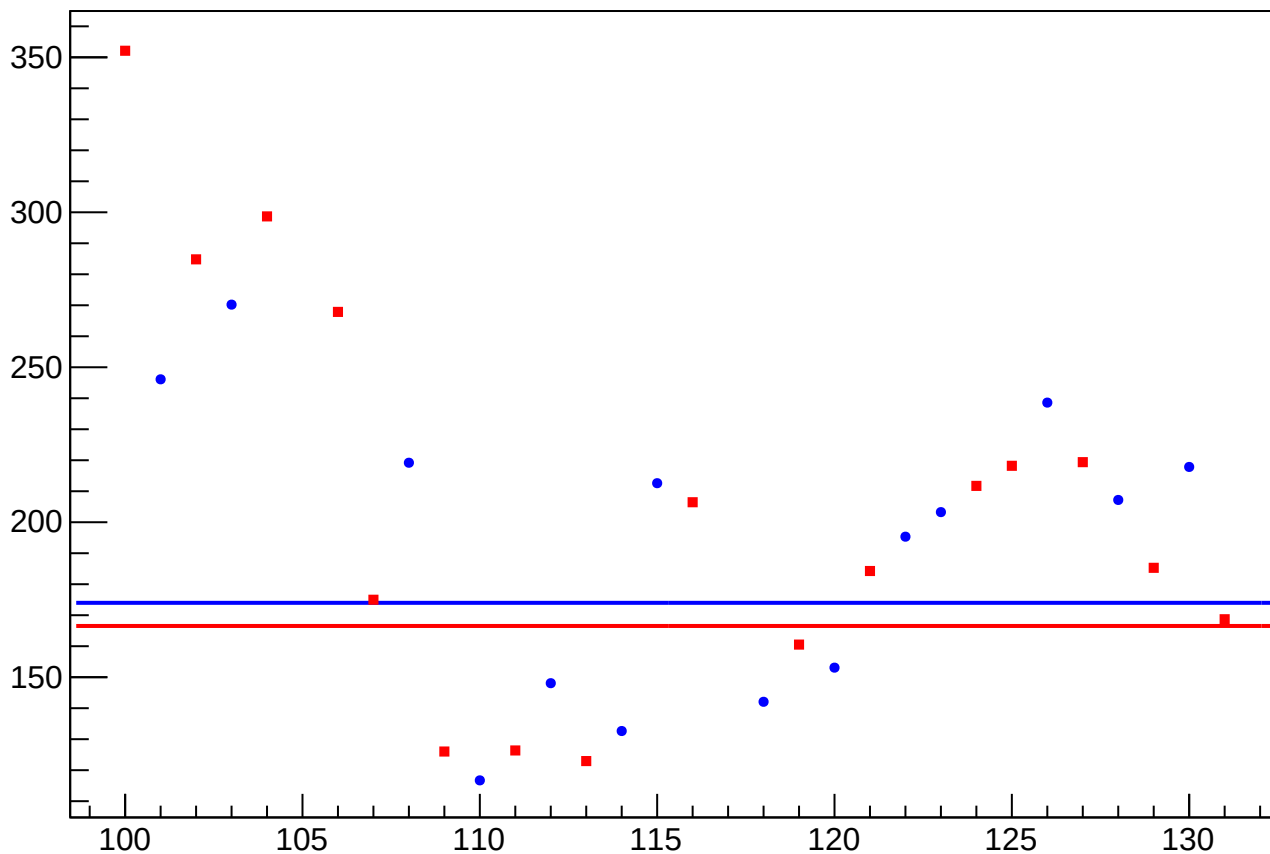
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2698.500+/-53.568  $\chi^2/\text{NDF}$ : 6774.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i02aWS\_rms vs Slug



Right In: 173.998 $\pm$ 0.057  $\chi^2$ /NDF: 680475.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 166.532 $\pm$ 0.051  $\chi^2$ /NDF: 910374.7/15

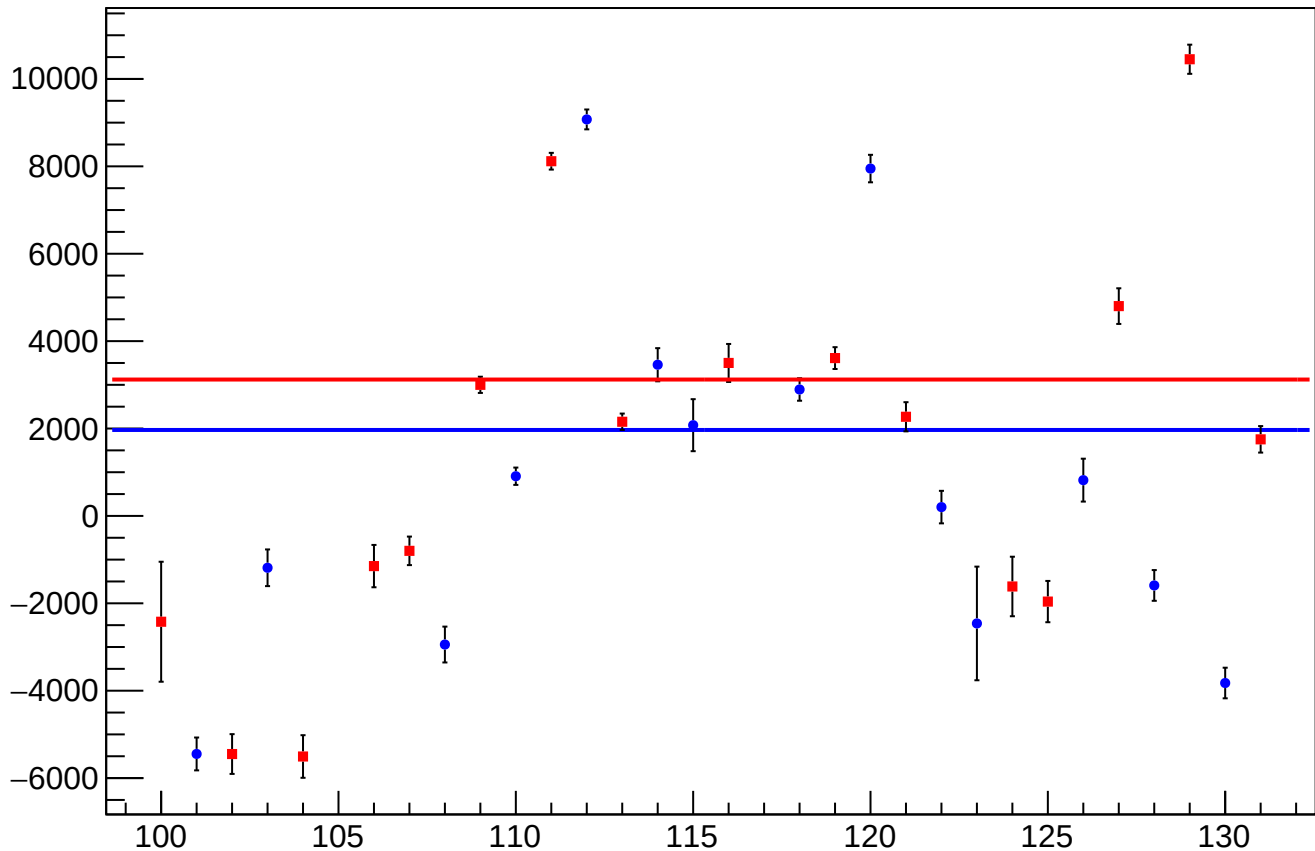
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 169.883 $\pm$ 0.038  $\chi^2$ /NDF: 1600462.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i05WS\_mean vs Slug



Right In: 1966.942 $\pm$ 88.835  $\chi^2$ /NDF: 2399.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 3121.040 $\pm$ 76.511  $\chi^2$ /NDF: 2309.2/15

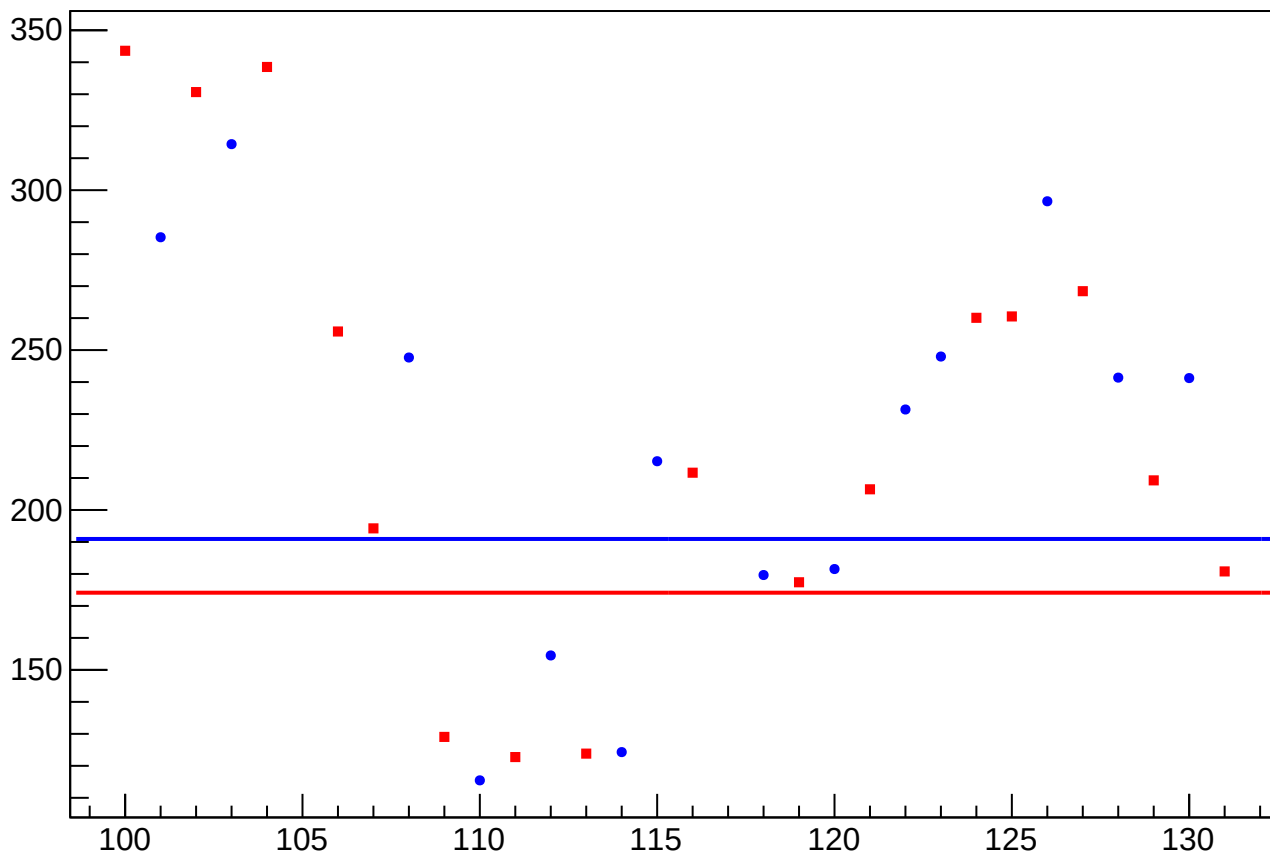
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 2629.538 $\pm$ 57.973  $\chi^2$ /NDF: 4806.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i05WS\_rms vs Slug



Right In:  $190.939 \pm 0.063$   $\chi^2/\text{NDF}$ : 952021.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $174.136 \pm 0.054$   $\chi^2/\text{NDF}$ : 1227890.4/15

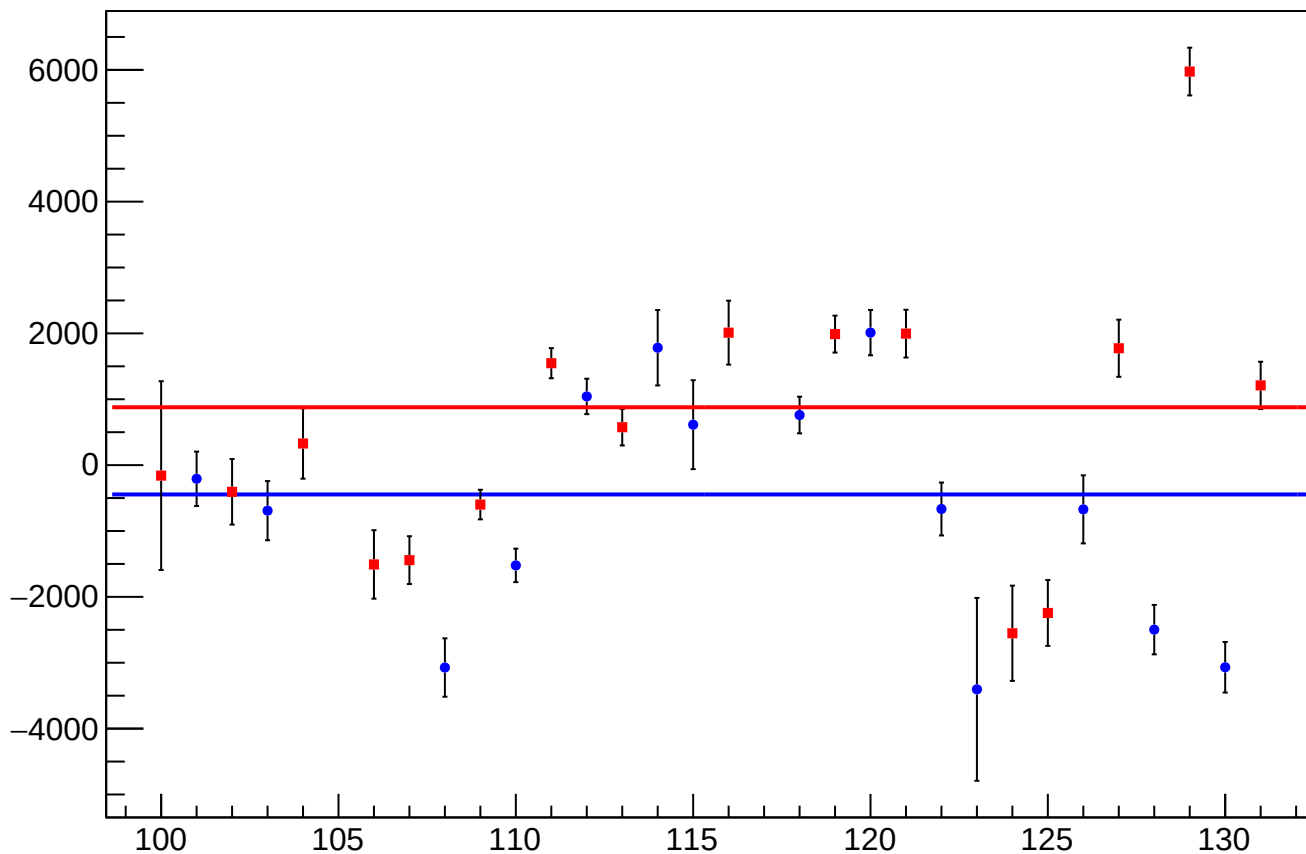
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $181.292 \pm 0.041$   $\chi^2/\text{NDF}$ : 2220988.9/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm0i07WS\_mean vs Slug



Right In: -445.105+/-101.947  $\chi^2$ /NDF: 253.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 878.553+/-90.340  $\chi^2$ /NDF: 418.3/15

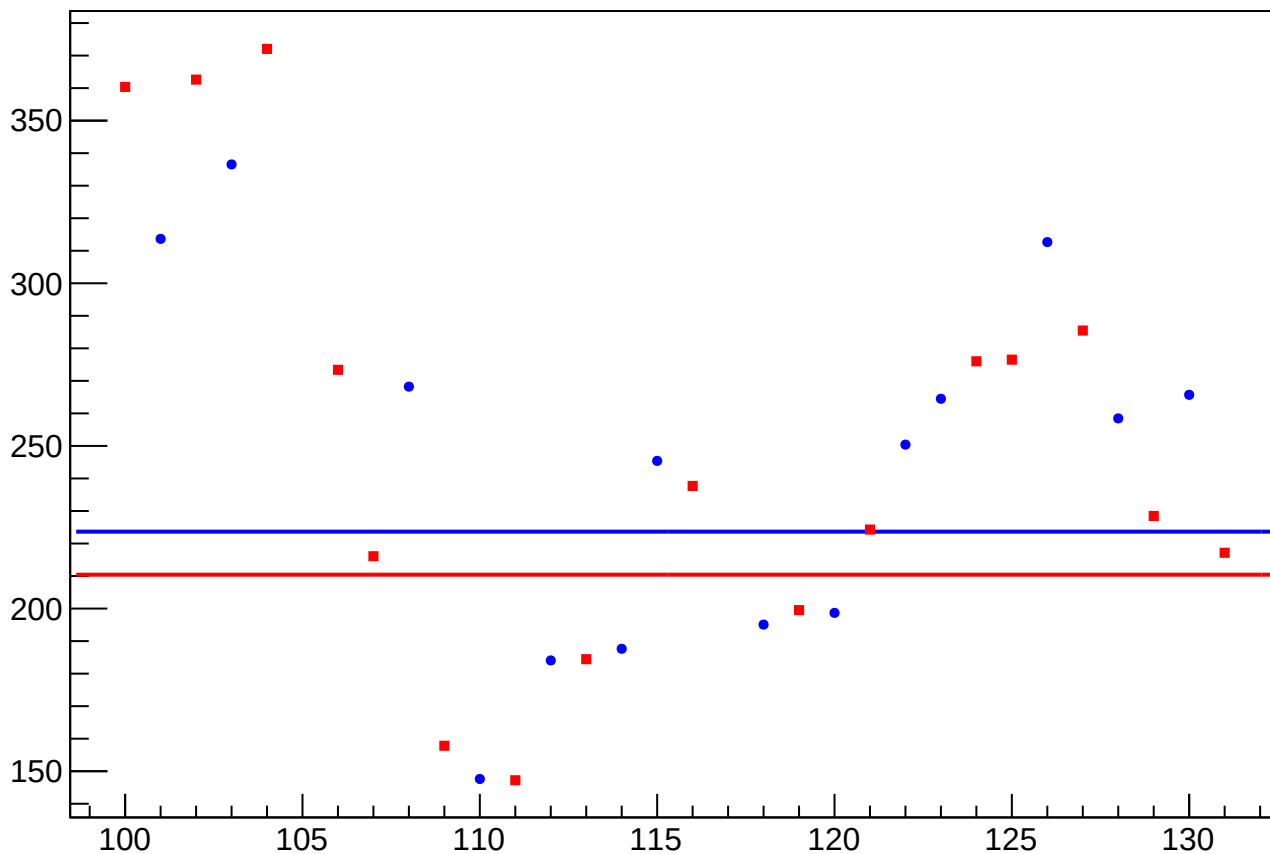
Left In: 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 296.337+/-67.613  $\chi^2$ /NDF: 766.0/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm0i07WS\_rms vs Slug



Right In:  $223.648 \pm 0.072$   $\chi^2/\text{NDF}$ : 617231.3/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $210.418 \pm 0.064$   $\chi^2/\text{NDF}$ : 831248.5/15

Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

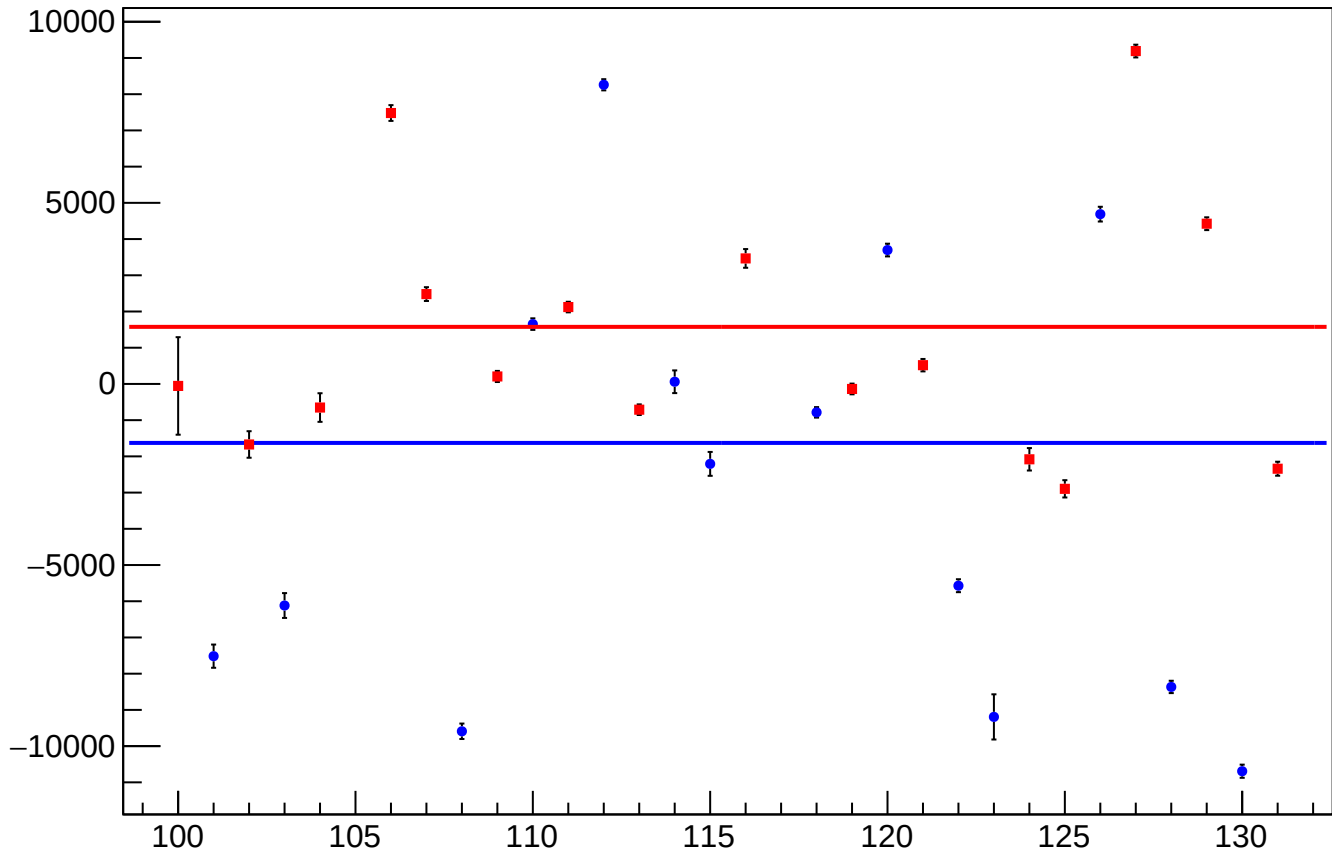
+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $216.237 \pm 0.048$   $\chi^2/\text{NDF}$ : 1467345.6/29

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0



# asym\_bpm1i02WS\_mean vs Slug



Right In:  $-1628.288 \pm 53.955$   $\chi^2/\text{NDF}: 13049.6/13$

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

Right Out:  $1576.106 \pm 49.246$   $\chi^2/\text{NDF}: 4456.9/15$

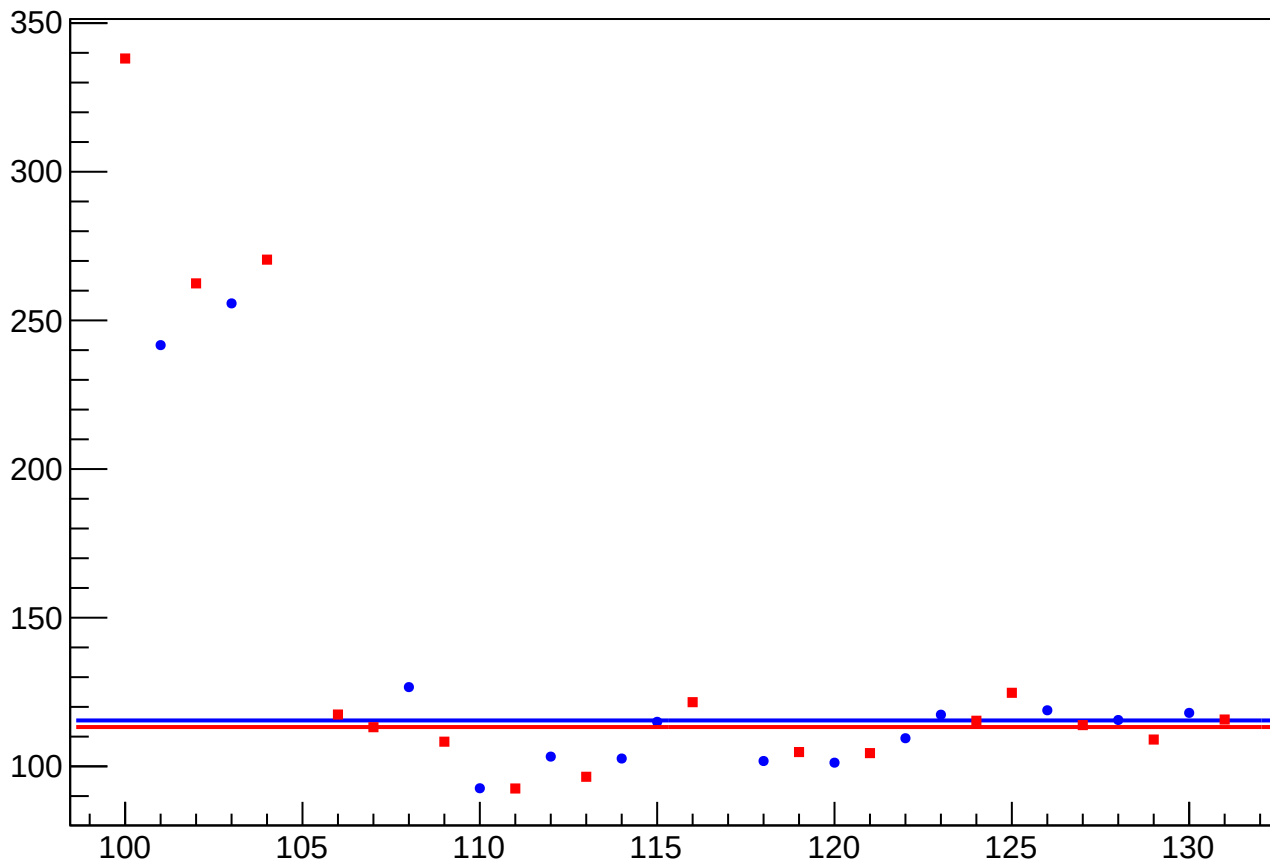
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

All:  $119.812 \pm 36.373$   $\chi^2/\text{NDF}: 19430.7/29$

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}: 0.0/0$

# asym\_bpm1i02WS\_rms vs Slug



Right In: 115.440 $\pm$ 0.038  $\chi^2$ /NDF: 741030.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 113.219 $\pm$ 0.035  $\chi^2$ /NDF: 793593.2/15

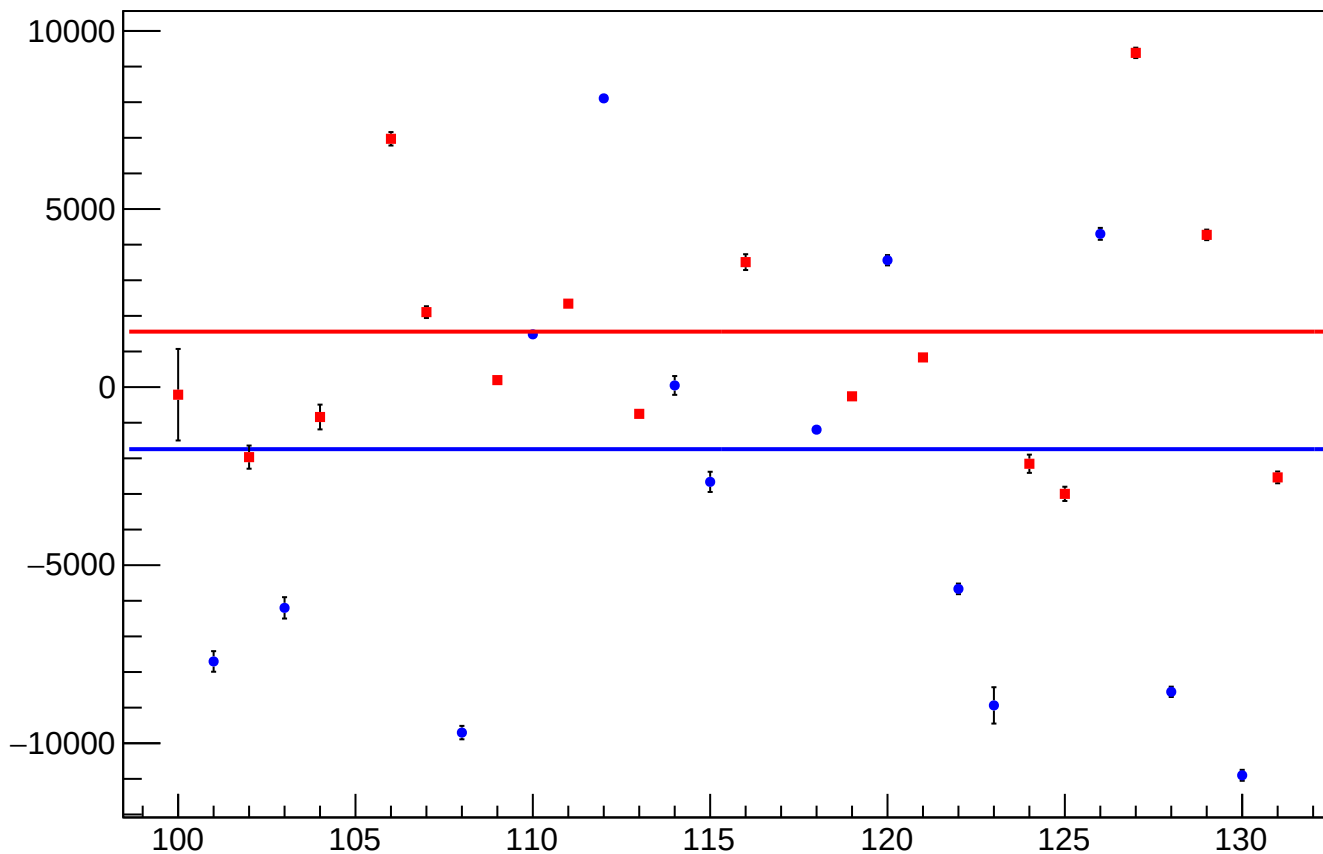
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 114.228 $\pm$ 0.026  $\chi^2$ /NDF: 1536471.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i04WS\_mean vs Slug



Right In: -1742.383+/-45.556  $\chi^2/\text{NDF}$ : 17903.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1557.663+/-41.642  $\chi^2/\text{NDF}$ : 6384.8/15

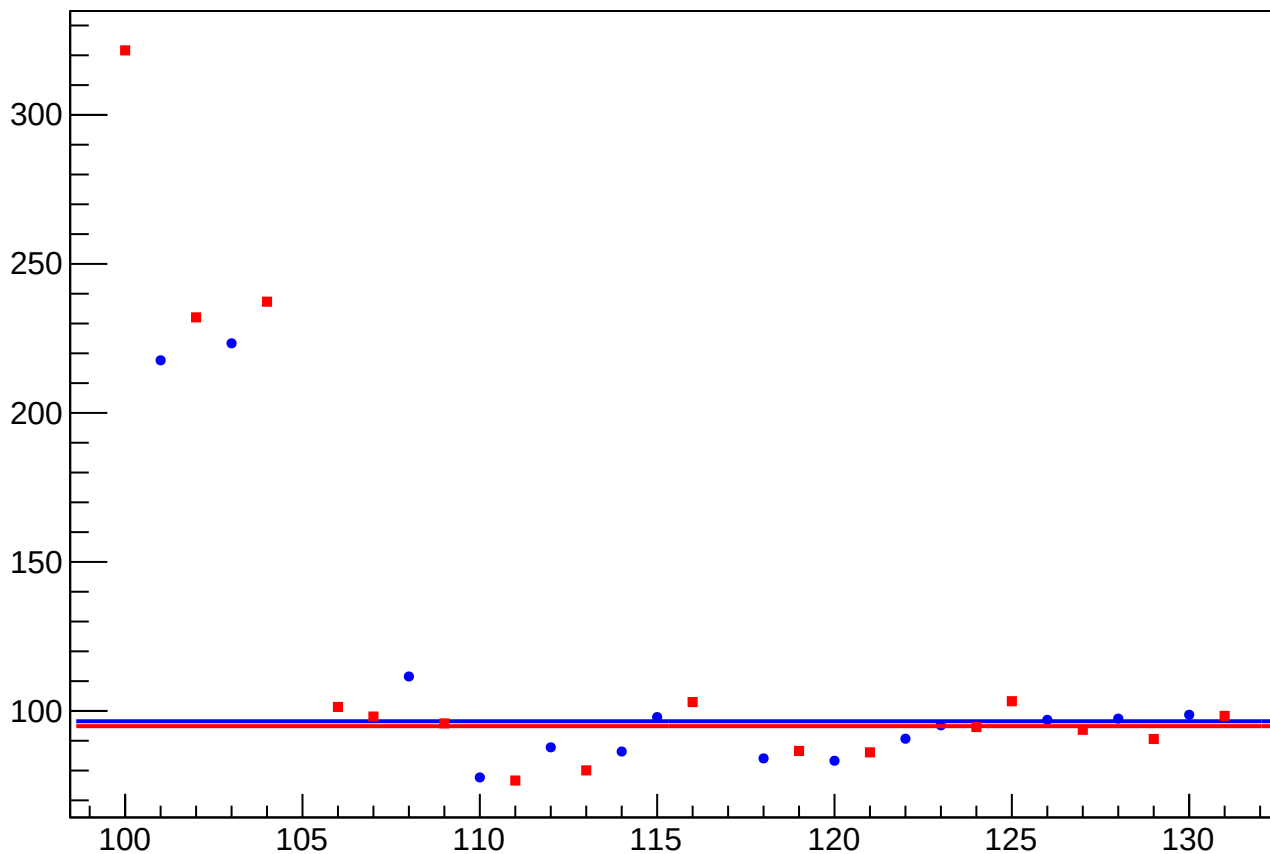
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 55.435+/-30.736  $\chi^2/\text{NDF}$ : 27146.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# asym\_bpm1i04WS\_rms vs Slug



Right In: 96.541 $\pm$ 0.032  $\chi^2$ /NDF: 814585.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 94.891 $\pm$ 0.029  $\chi^2$ /NDF: 856649.4/15

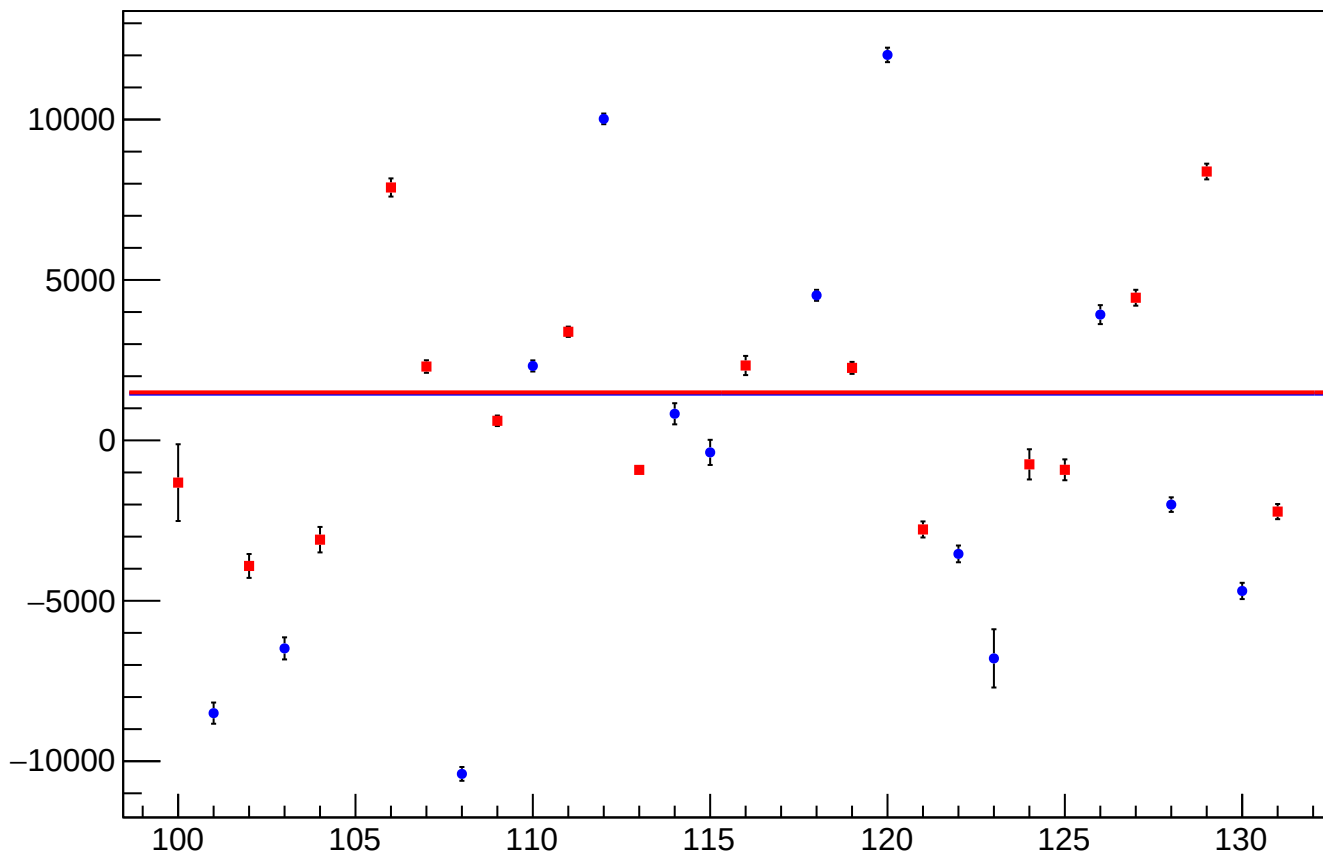
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 95.642 $\pm$ 0.022  $\chi^2$ /NDF: 1672664.0/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i06WS\_mean vs Slug



Right In: 1455.973 $\pm$ 64.545  $\chi^2$ /NDF: 11013.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 1495.901 $\pm$ 58.686  $\chi^2$ /NDF: 2852.9/15

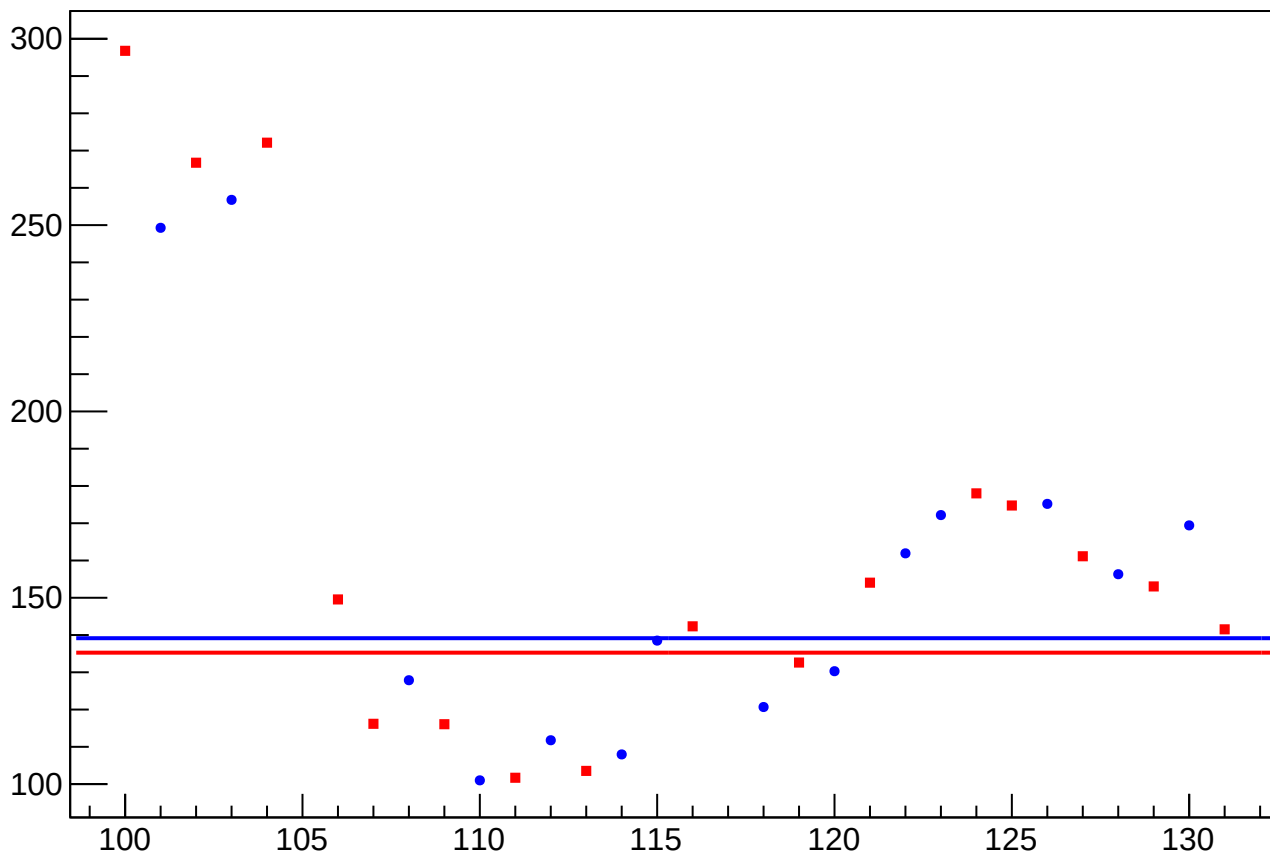
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 1477.831 $\pm$ 43.421  $\chi^2$ /NDF: 13866.9/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# asym\_bpm1i06WS\_rms vs Slug



Right In: 139.149 $\pm$ 0.046  $\chi^2$ /NDF: 743632.4/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 135.268 $\pm$ 0.041  $\chi^2$ /NDF: 837369.0/15

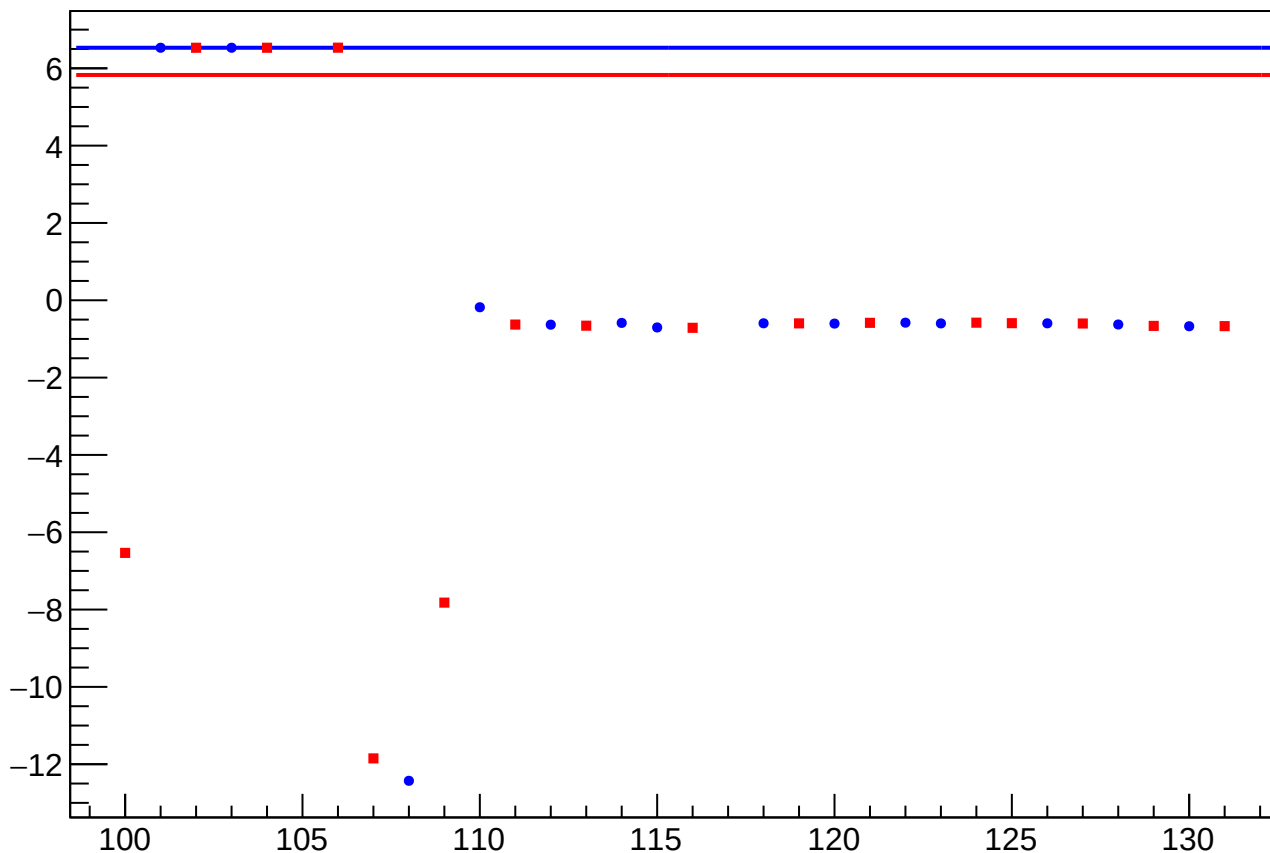
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 137.024 $\pm$ 0.031  $\chi^2$ /NDF: 1584959.5/29

- 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: 85768504820.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 5.828 $\pm$ 0.000  $\chi^2$ /NDF: 755926179058803.2/15

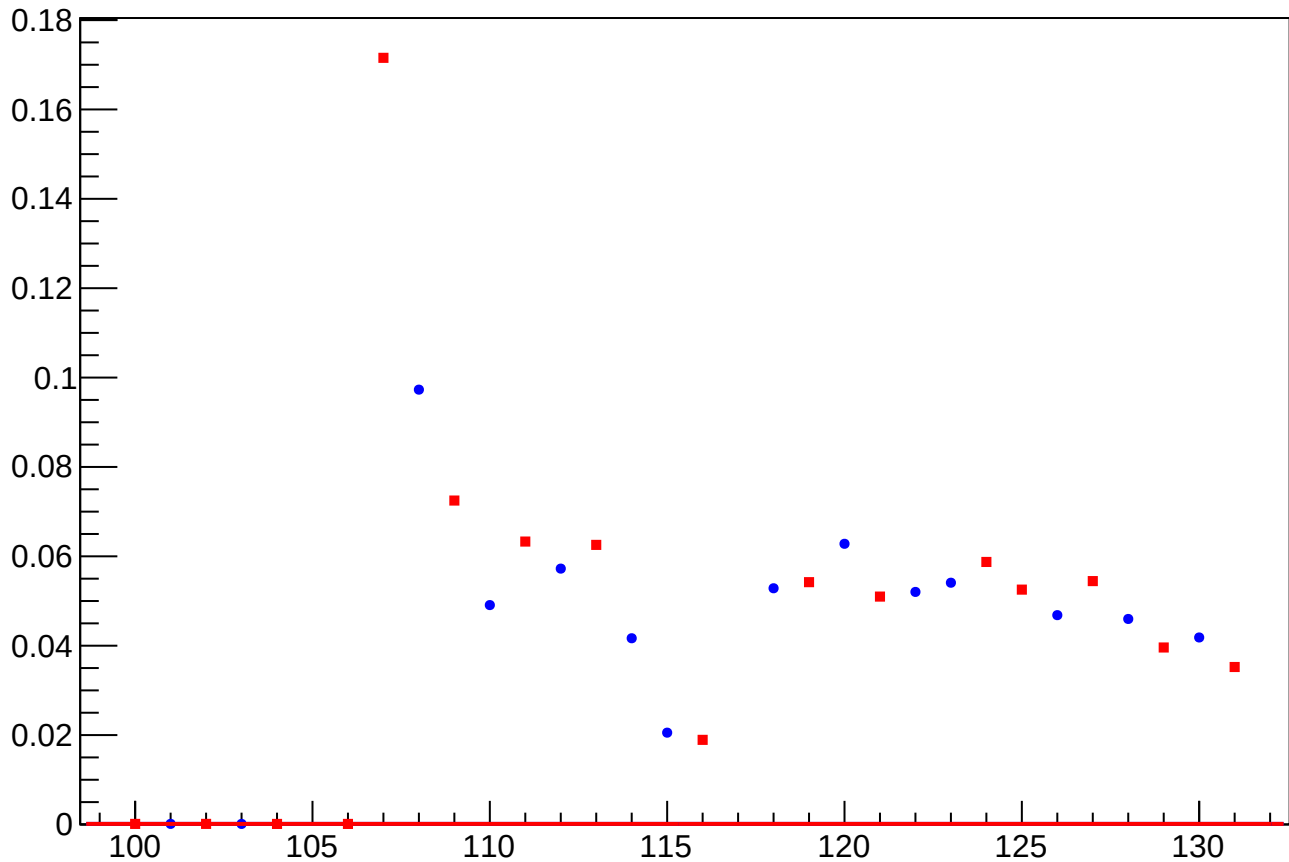
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 6.155 $\pm$ 0.000  $\chi^2$ /NDF: 77601718080800

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4bX\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6900799.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7585910.8/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

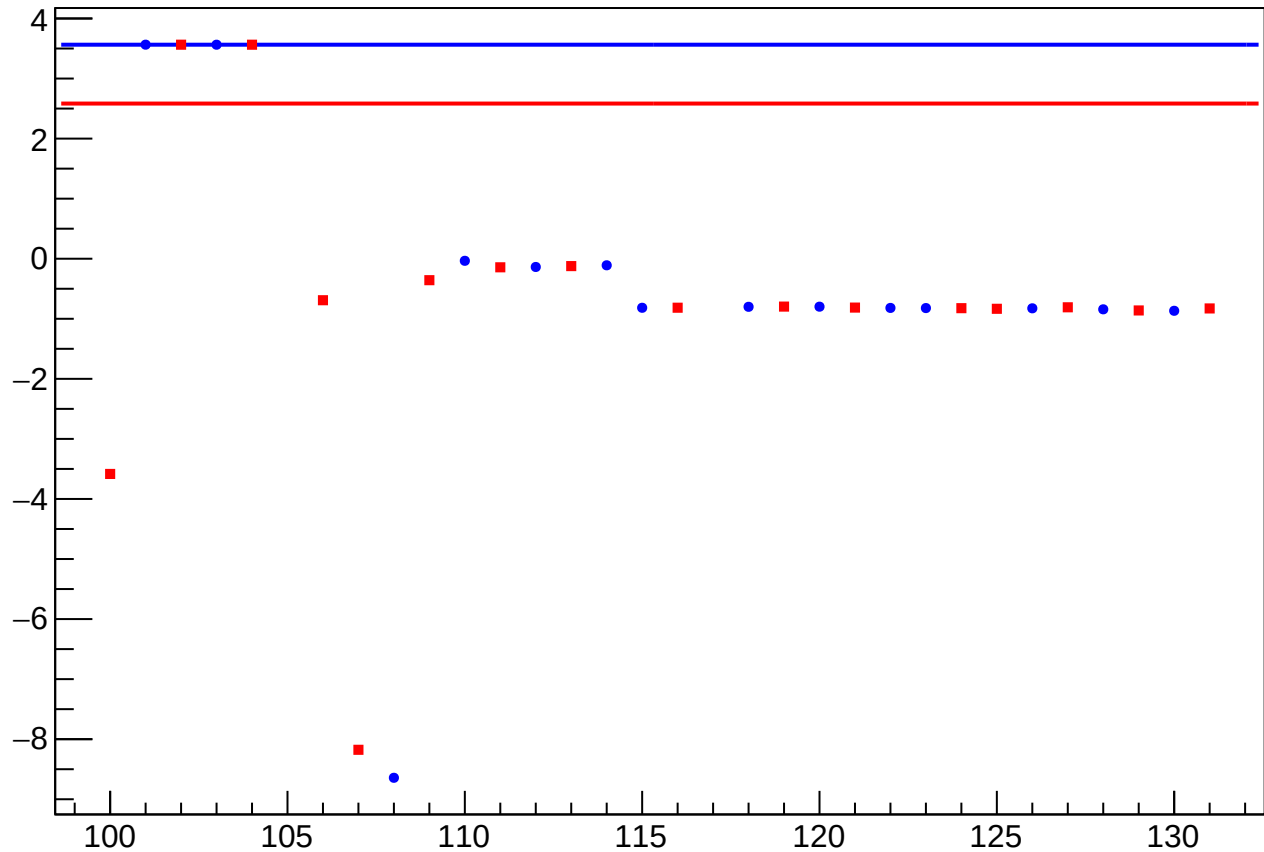
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 14486919.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_cav4bY\_mean vs Slug



Right In: 3.564 $\pm$ 0.000  $\chi^2$ /NDF: 254271165309.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 2.584 $\pm$ 0.000  $\chi^2$ /NDF: 1253380336084045.5/15

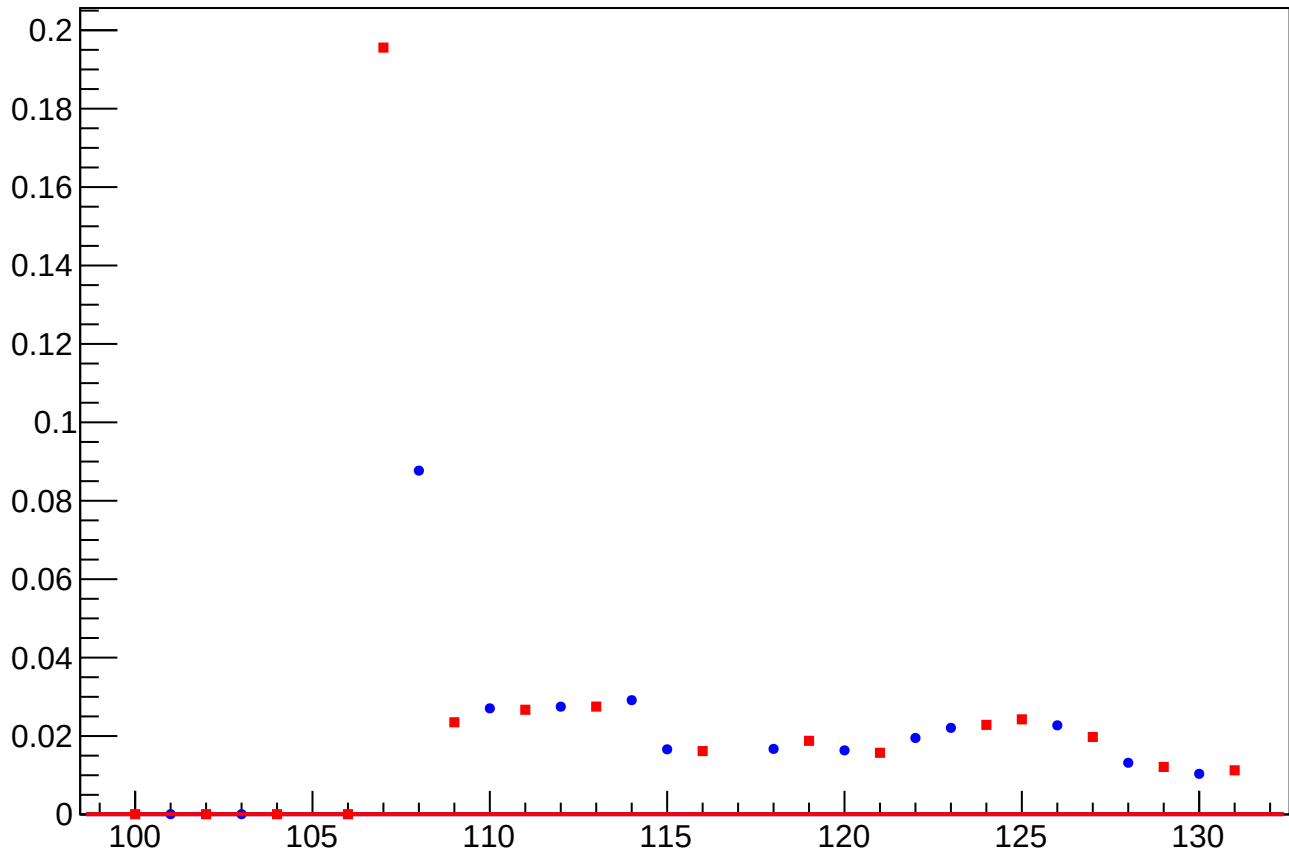
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 3.041 $\pm$ 0.000  $\chi^2$ /NDF: 13819221066275

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4bY\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7394181.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7973327.6/15

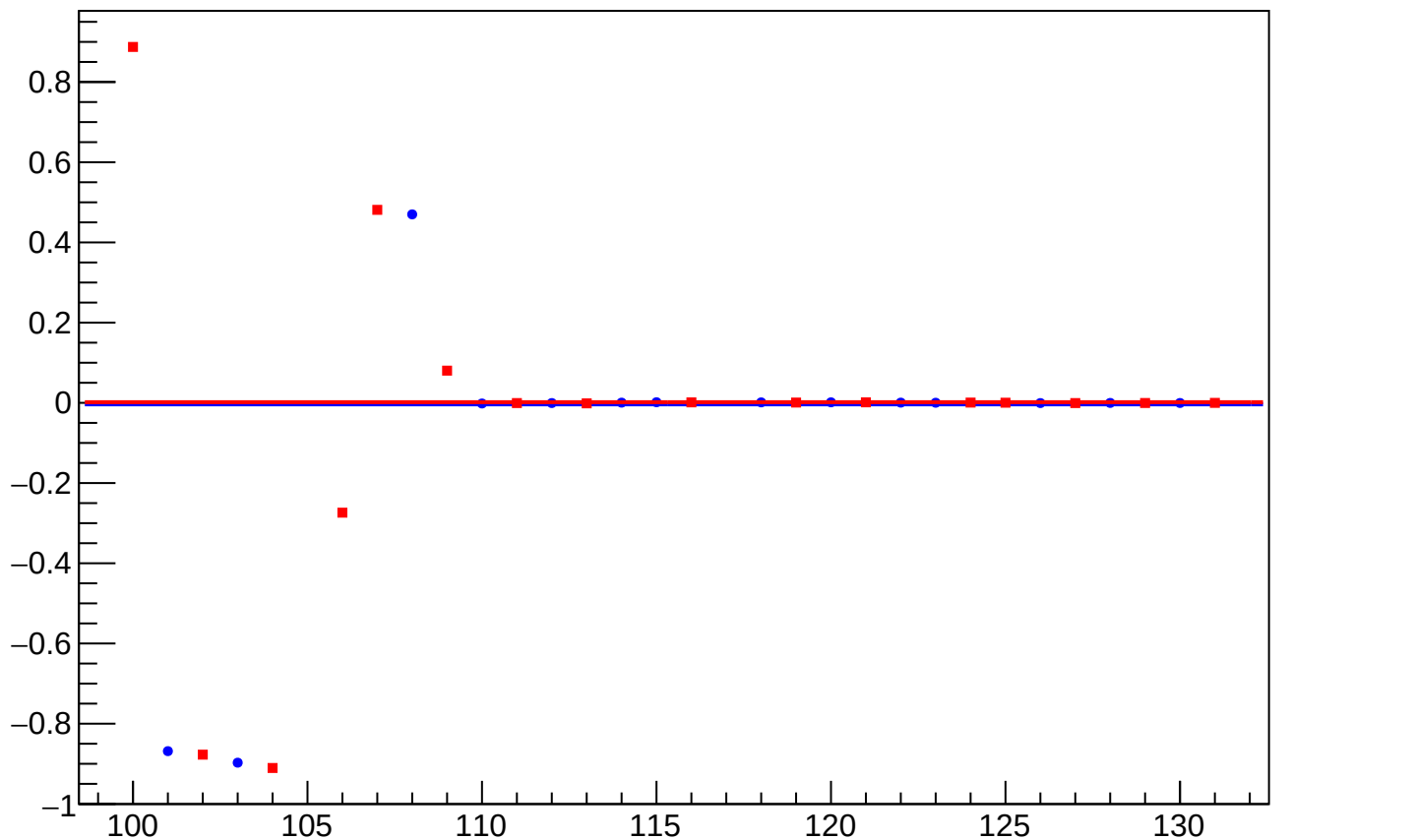
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15367721.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cX\_mean vs Slug



Right In: -0.004+/-0.000  $\chi^2/\text{NDF}$ : 9787489486.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3040511658.5/15

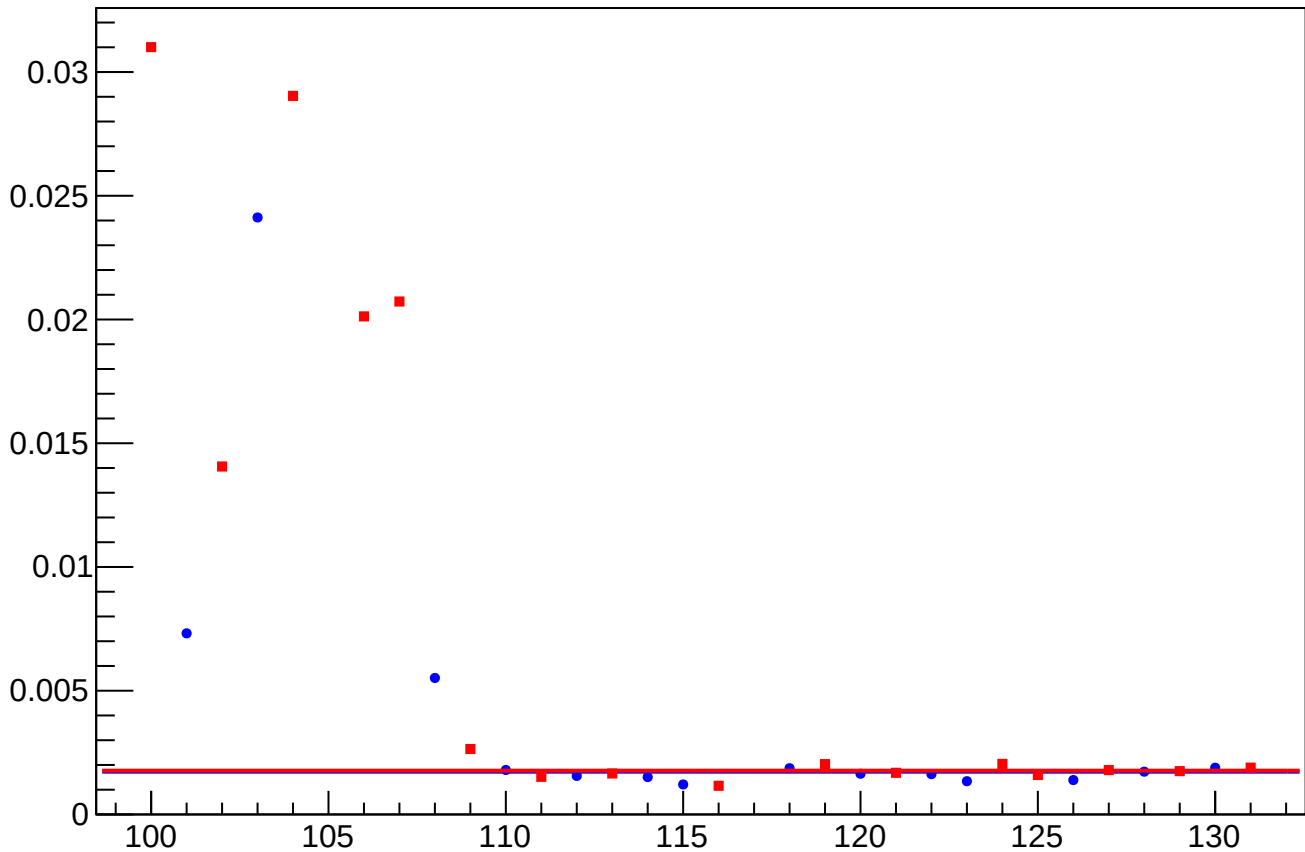
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.001+/-0.000  $\chi^2/\text{NDF}$ : 12844789249.4/

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cX\_rms vs Slug



Right In: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 1763119.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 2856171.7/15

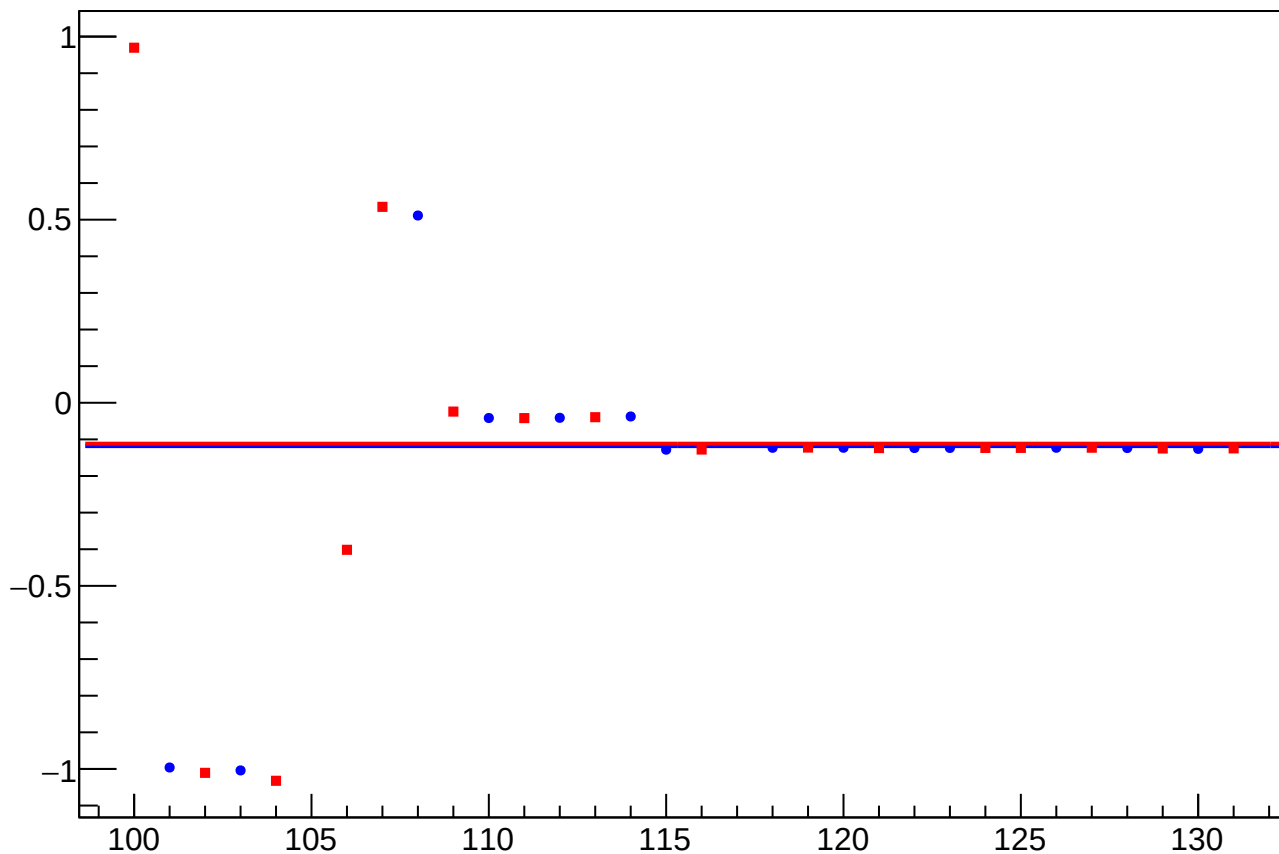
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.002 $\pm$ 0.000  $\chi^2$ /NDF: 4621174.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_cav4cY\_mean vs Slug



Right In: -0.118+/-0.000  $\chi^2/\text{NDF}$ : 3920612620.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.112+/-0.000  $\chi^2/\text{NDF}$ : 2400954425.4/15

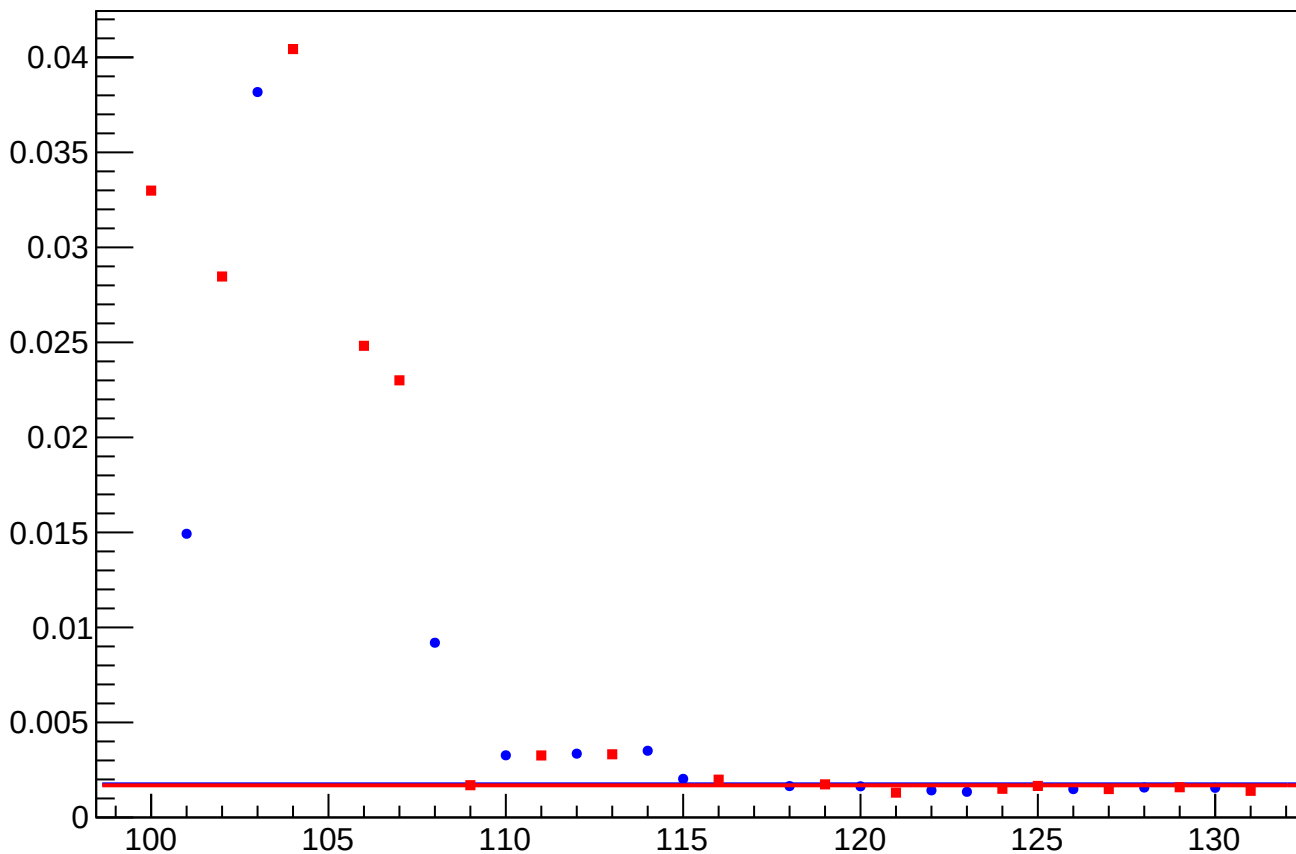
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.115+/-0.000  $\chi^2/\text{NDF}$ : 6348258208.7/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4cY\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2675212.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 3339556.5/15

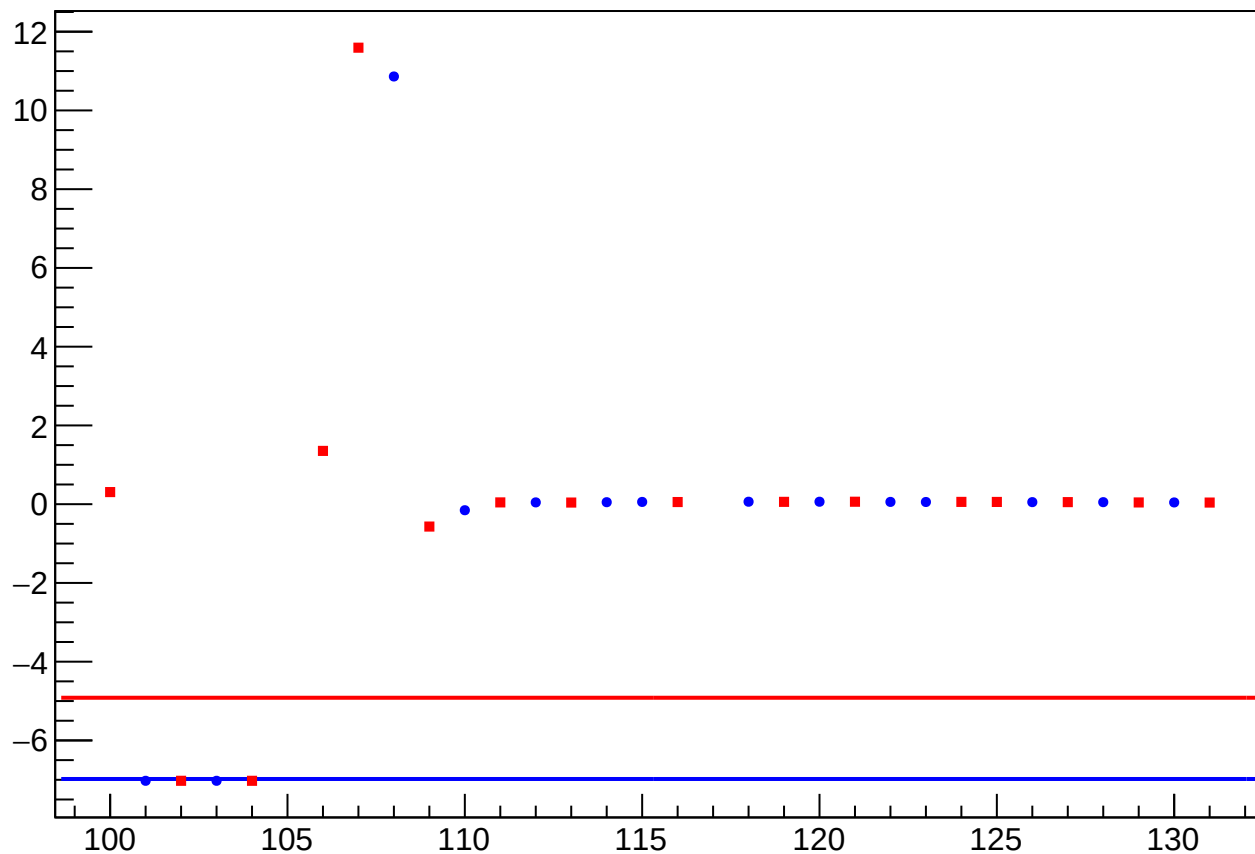
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 6017964.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dX\_mean vs Slug



Right In: -6.979+/-0.000  $\chi^2/\text{NDF}$ : 7996661297988.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.916+/-0.000  $\chi^2/\text{NDF}$ : 365072654589886.8/15

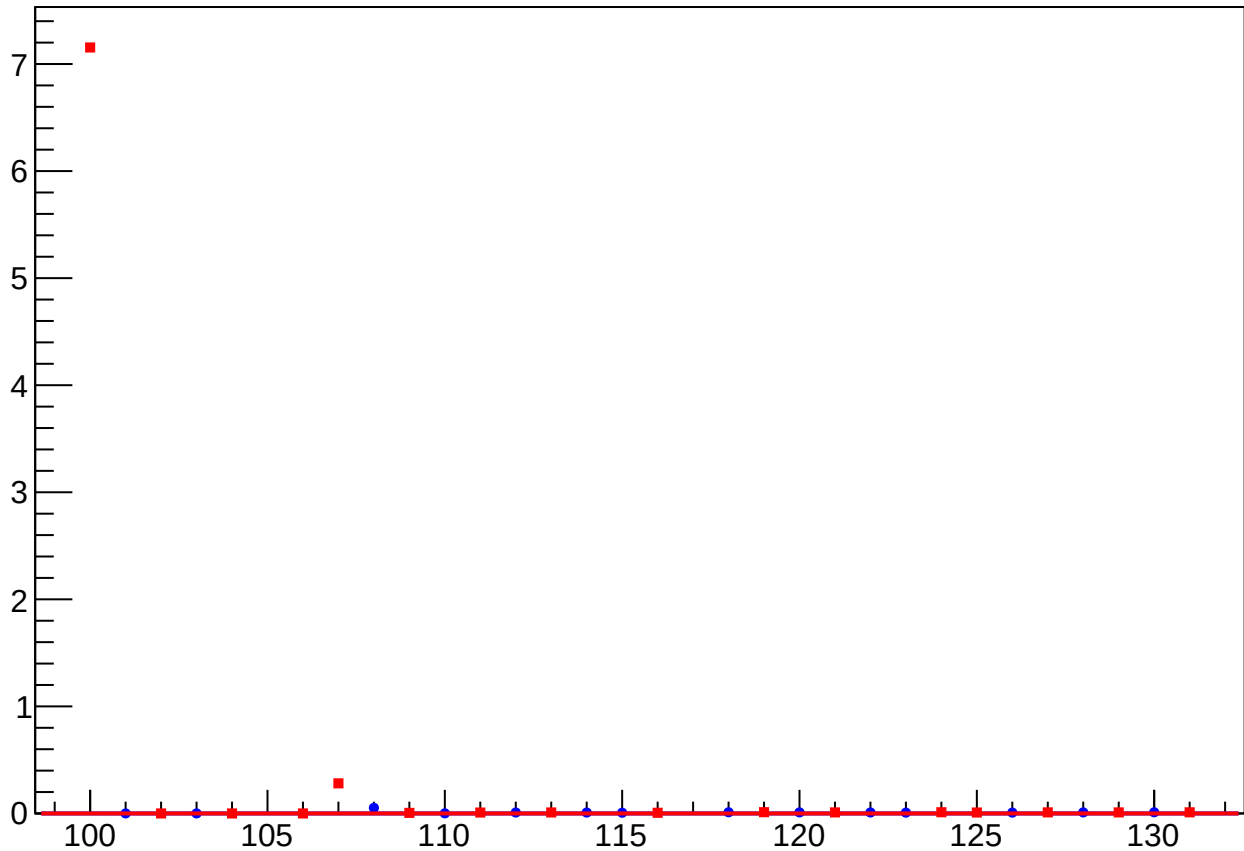
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.903+/-0.000  $\chi^2/\text{NDF}$ : 4293570092607

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dX\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 6183292.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7039864.4/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

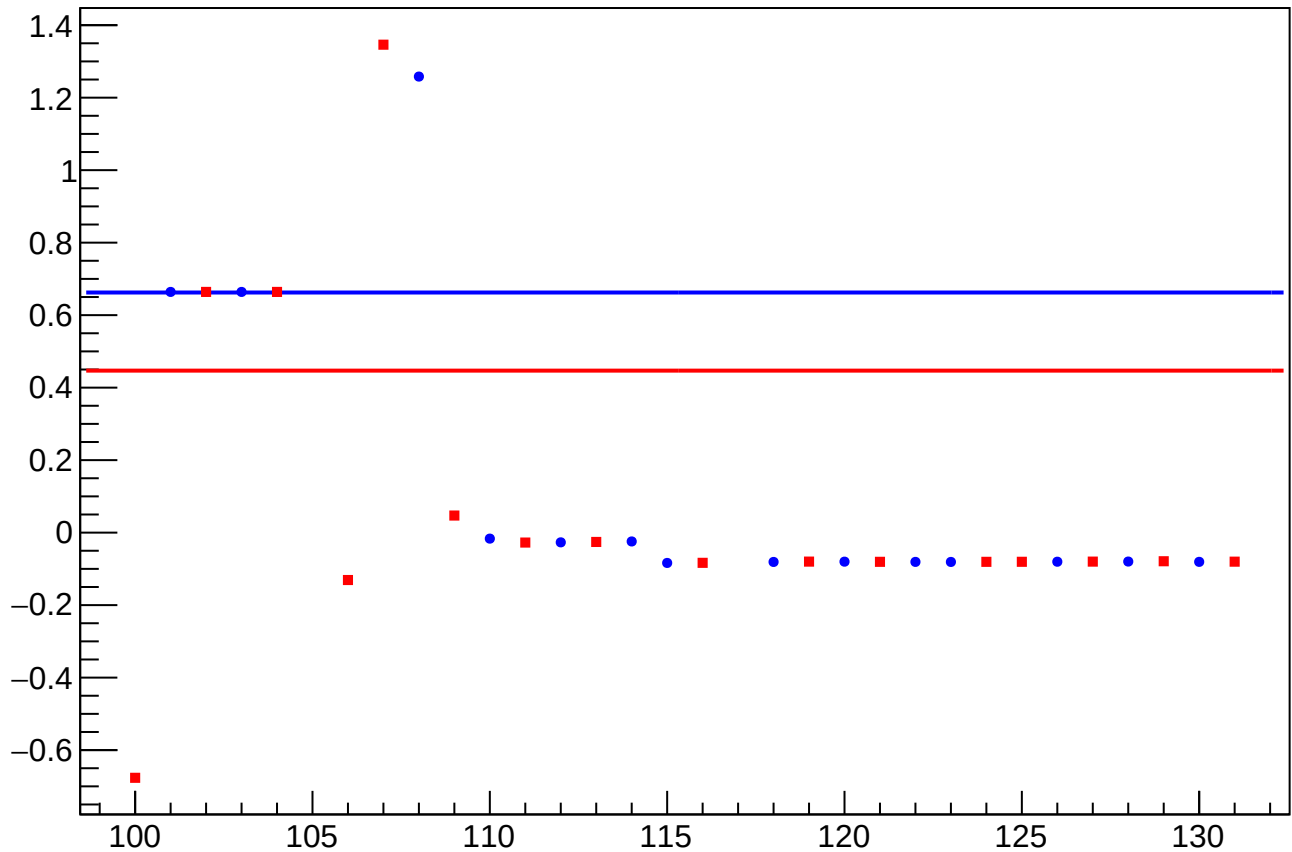
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 13223258.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_cav4dY\_mean vs Slug



Right In: 0.662+/-0.000  $\chi^2/\text{NDF}$ : 3159874309604.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.447+/-0.000  $\chi^2/\text{NDF}$ : 404389579453911.8/15

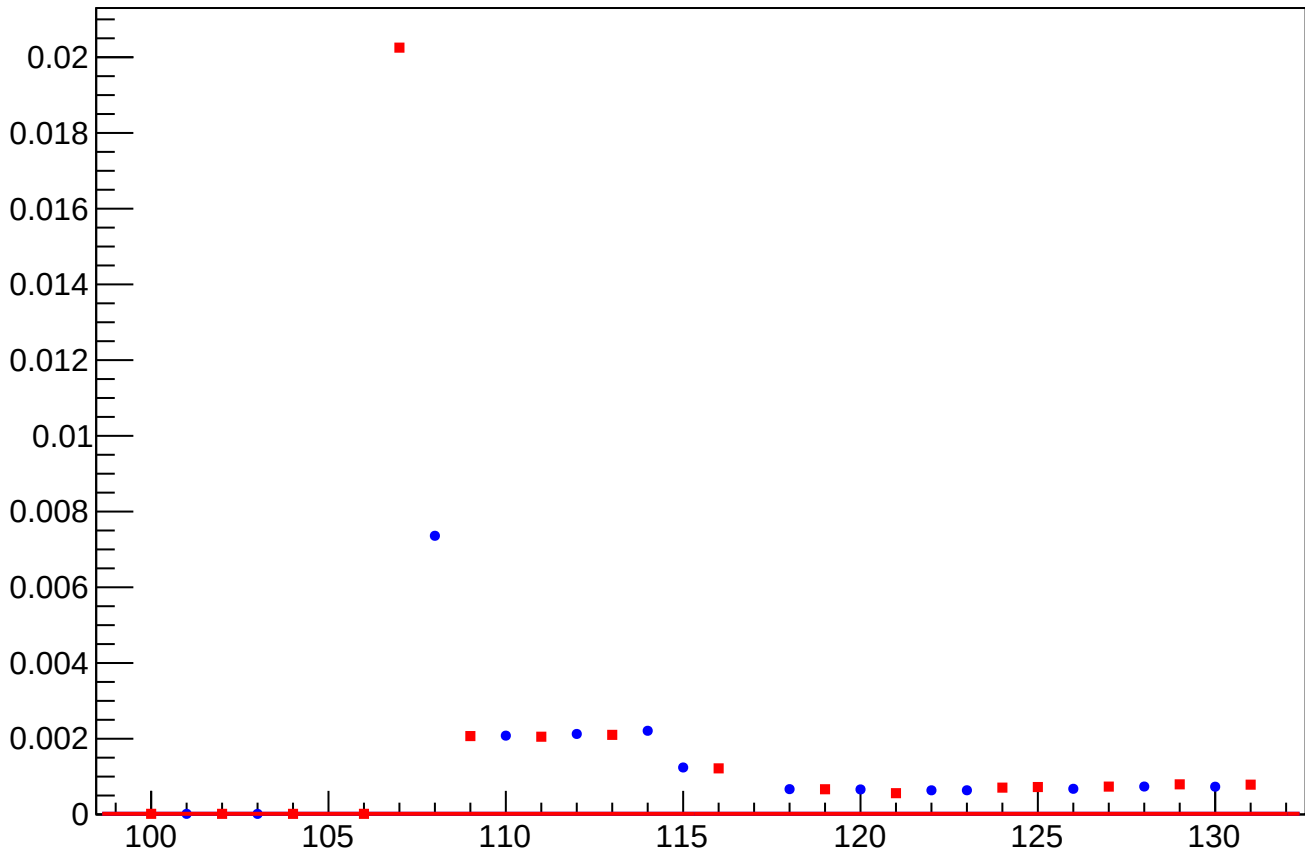
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.550+/-0.000  $\chi^2/\text{NDF}$ : 47071868875008

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_cav4dY\_rms vs Slug



Right In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7483220.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 7561146.5/15

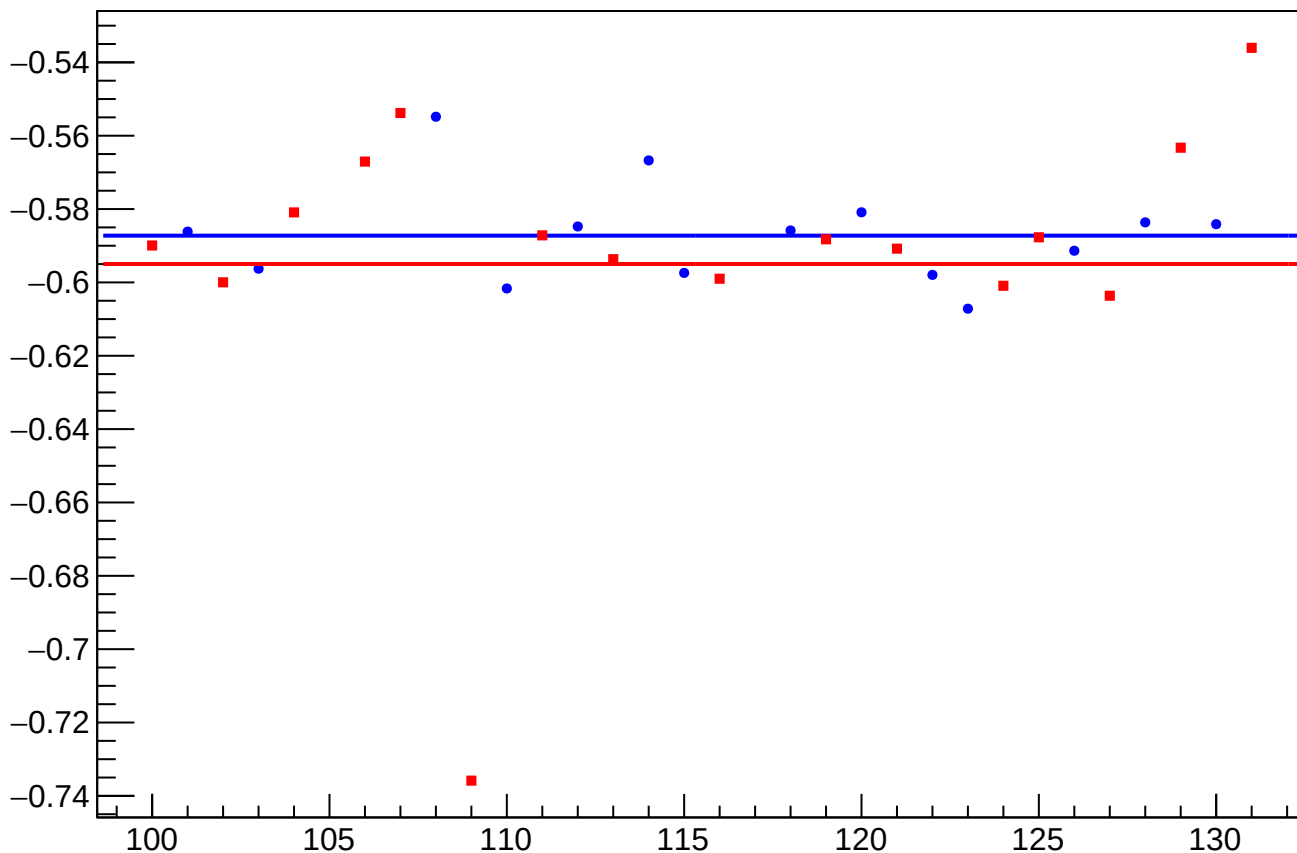
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 15044424.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aX\_mean vs Slug



Right In: -0.587+/-0.000  $\chi^2/\text{NDF}$ : 669327.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.595+/-0.000  $\chi^2/\text{NDF}$ : 12833575.0/15

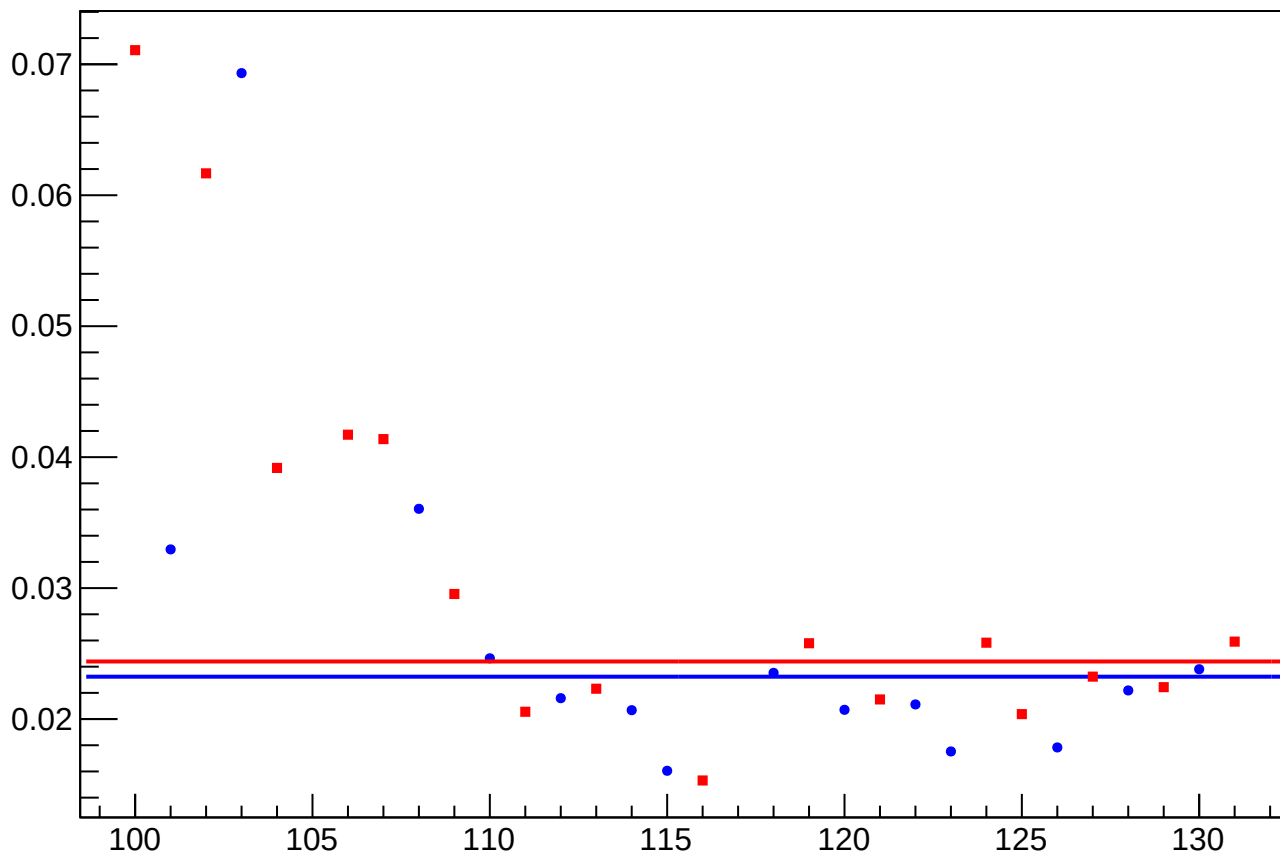
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.591+/-0.000  $\chi^2/\text{NDF}$ : 13728642.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aX\_rms vs Slug



Right In: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 783783.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 939253.9/15

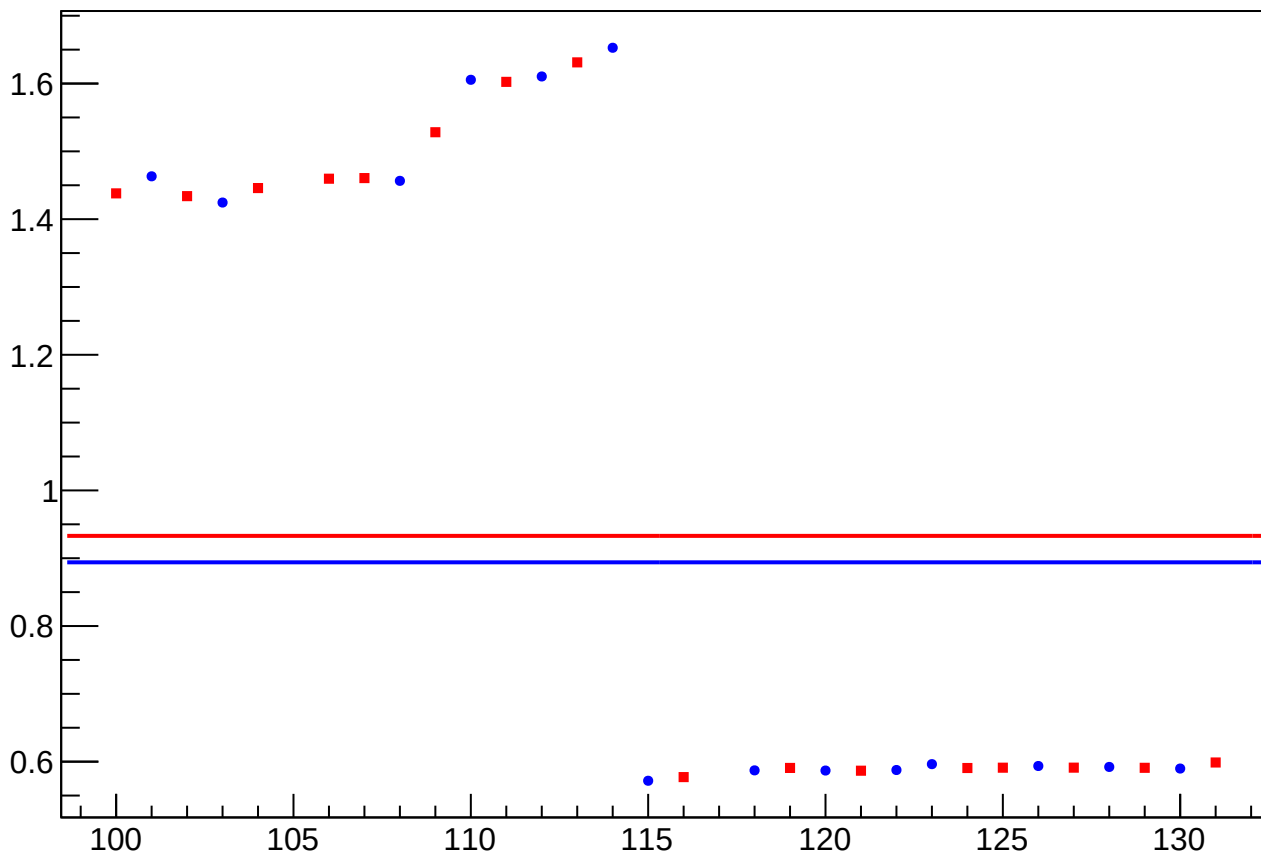
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 1733220.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aY\_mean vs Slug



Right In: 0.894+/-0.000  $\chi^2/\text{NDF}$ : 3066186465.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.933+/-0.000  $\chi^2/\text{NDF}$ : 3557252561.6/15

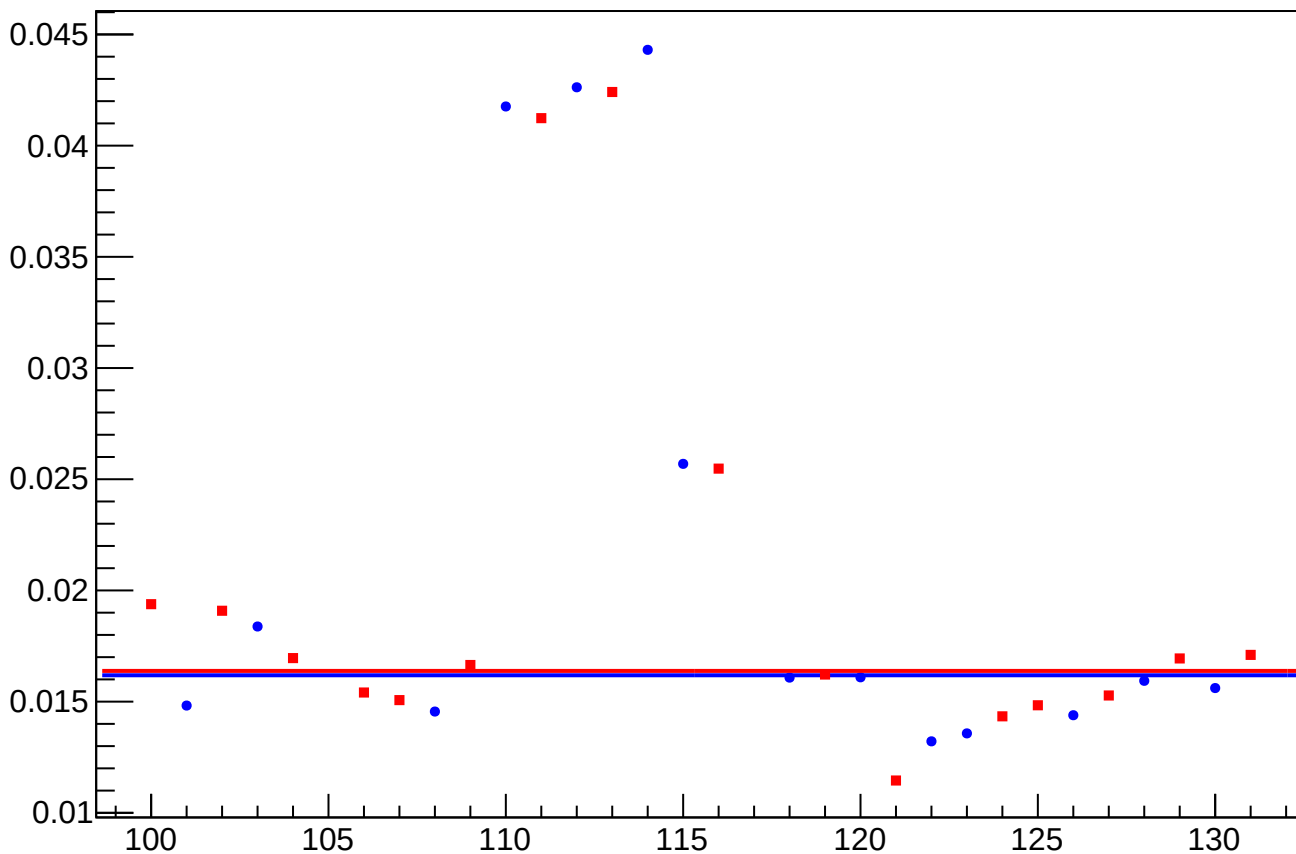
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.914+/-0.000  $\chi^2/\text{NDF}$ : 6637382766.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4aY\_rms vs Slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 790965.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 870386.0/15

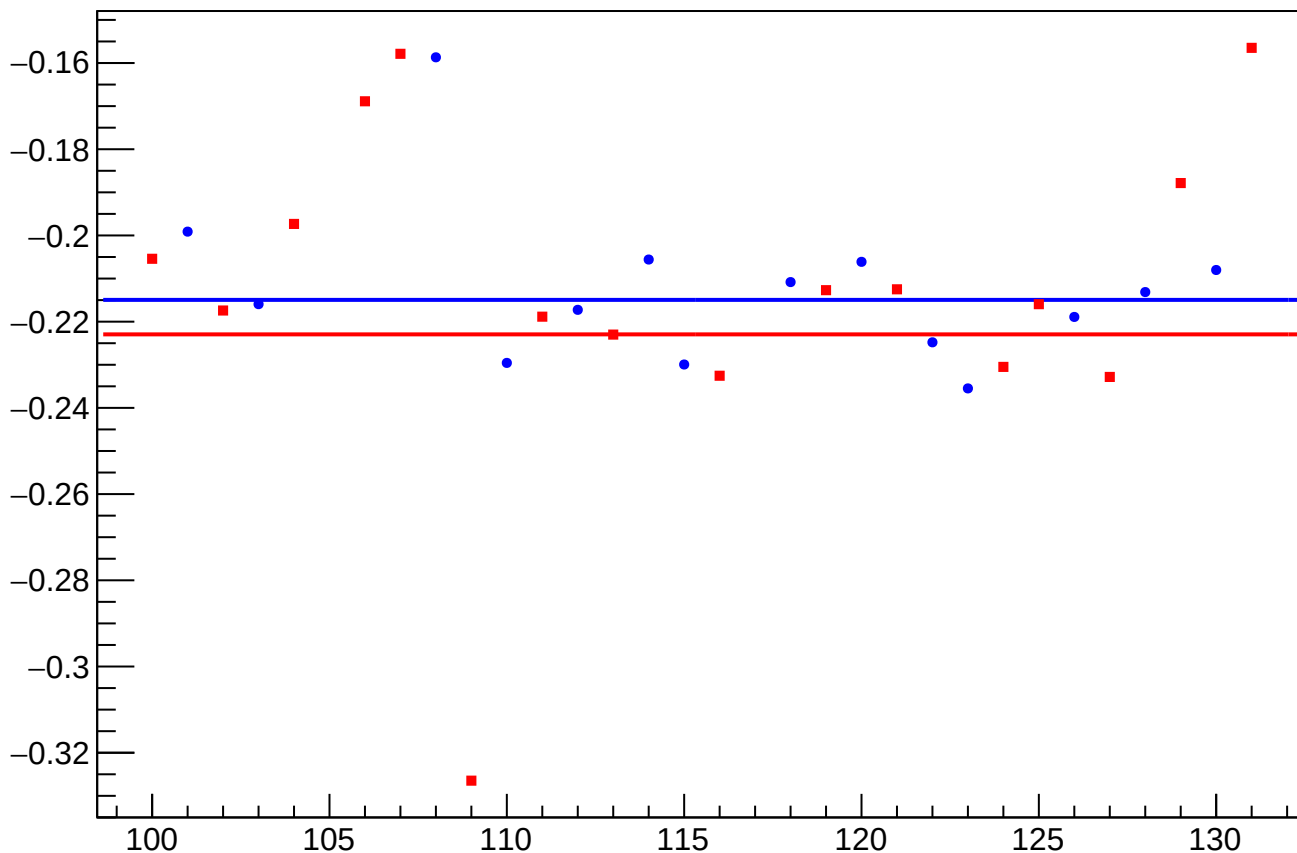
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 1662056.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eX\_mean vs Slug



Right In: -0.215+/-0.000  $\chi^2/\text{NDF}$ : 1501163.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.223+/-0.000  $\chi^2/\text{NDF}$ : 15314262.0/15

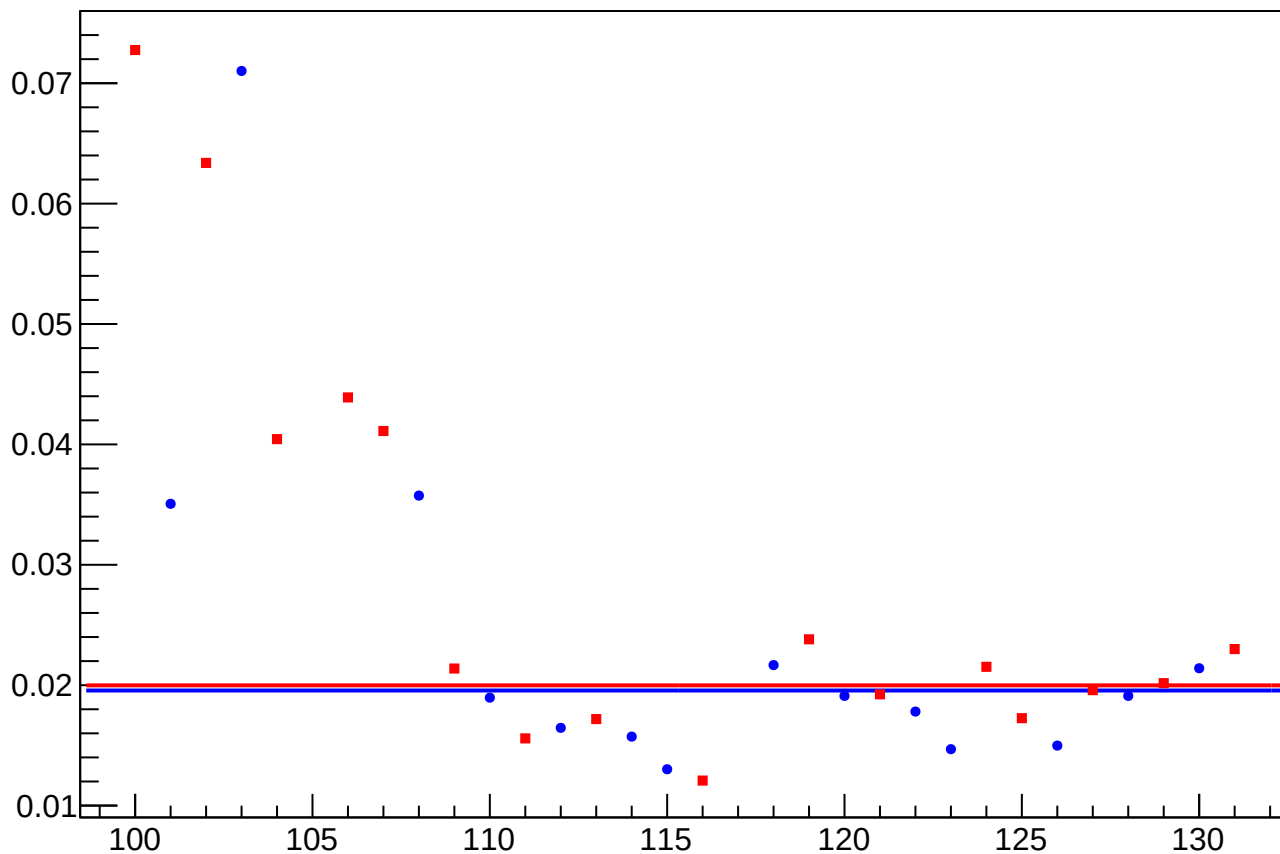
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.219+/-0.000  $\chi^2/\text{NDF}$ : 17153477.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eX\_rms vs Slug



Right In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1080859.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1315499.6/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

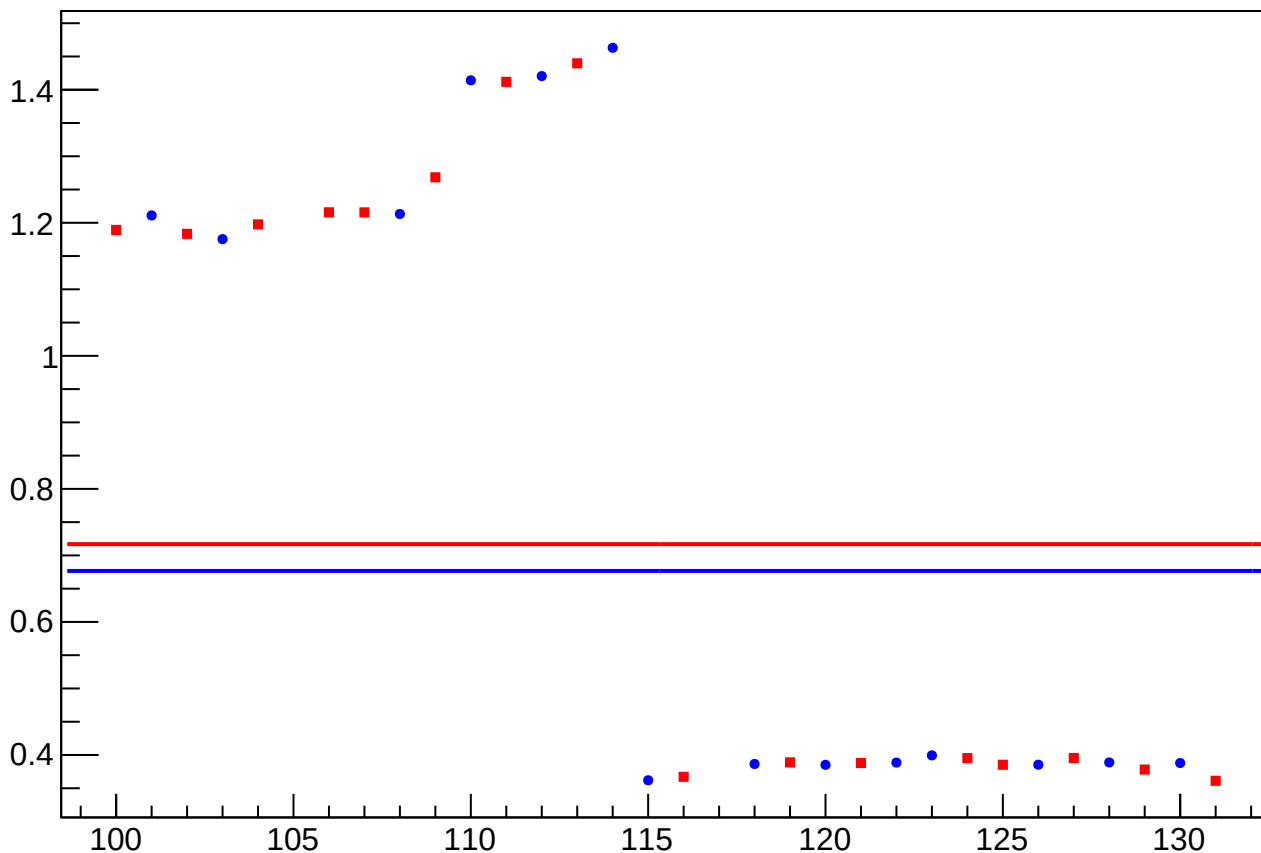
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 2398282.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm4eY\_mean vs Slug



Right In: 0.677+/-0.000  $\chi^2/\text{NDF}$ : 4045742654.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.717+/-0.000  $\chi^2/\text{NDF}$ : 4413454996.4/15

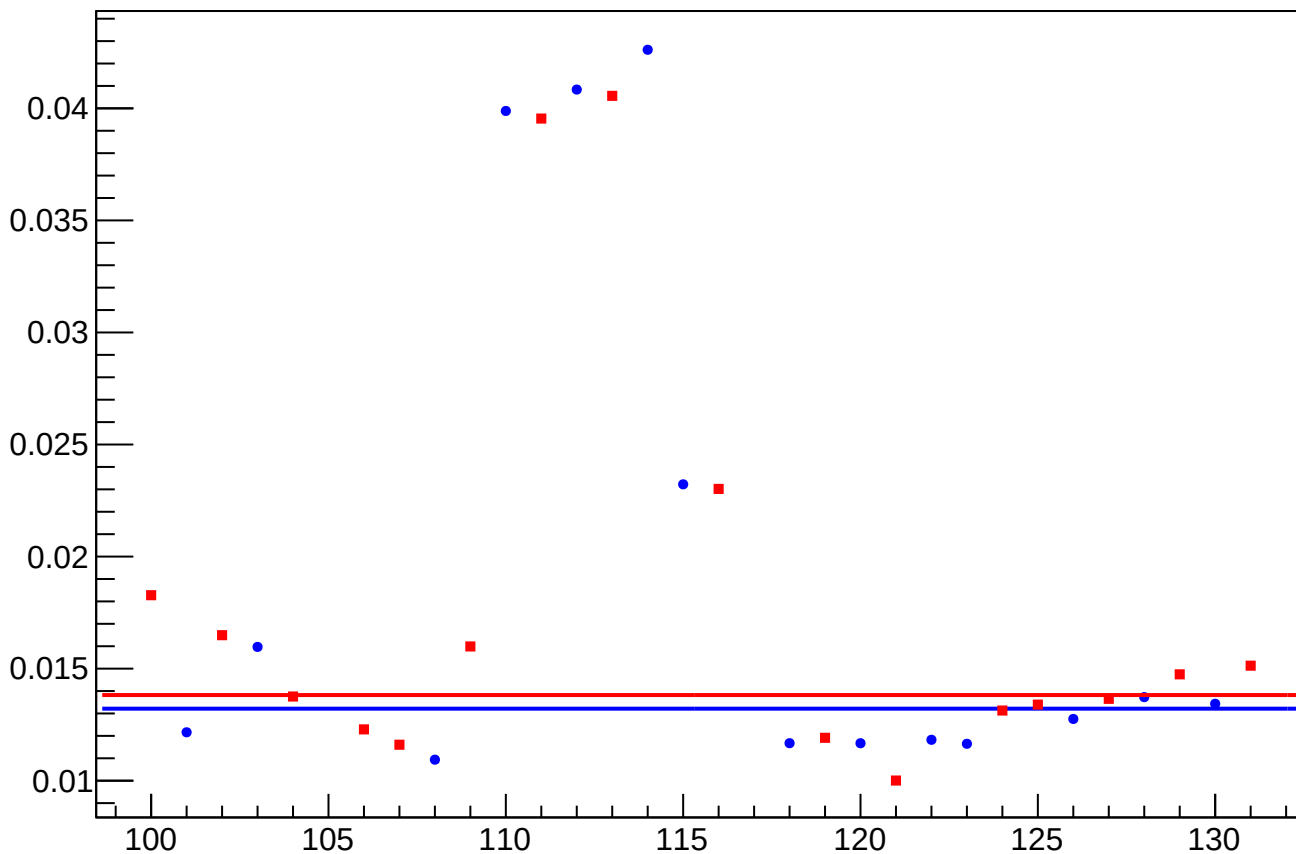
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.697+/-0.000  $\chi^2/\text{NDF}$ : 8480231001.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4eY\_rms vs Slug



Right In: 0.013 $\pm$ 0.000  $\chi^2$ /NDF: 947406.9/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 1012092.9/15

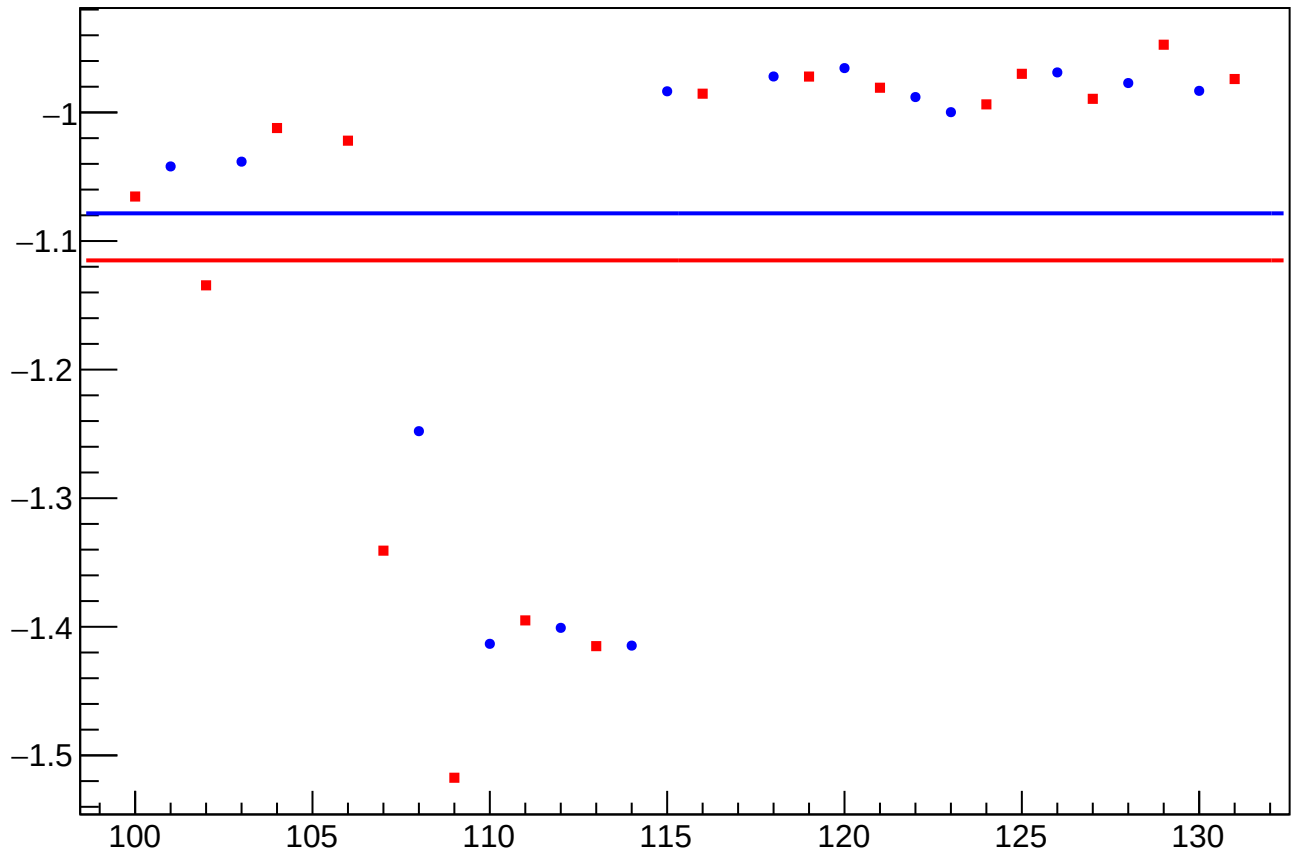
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 1969075.6/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm4acX\_mean vs Slug



Right In: -1.078+/-0.000  $\chi^2/\text{NDF}$ : 235848660.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.115+/-0.000  $\chi^2/\text{NDF}$ : 333855271.1/15

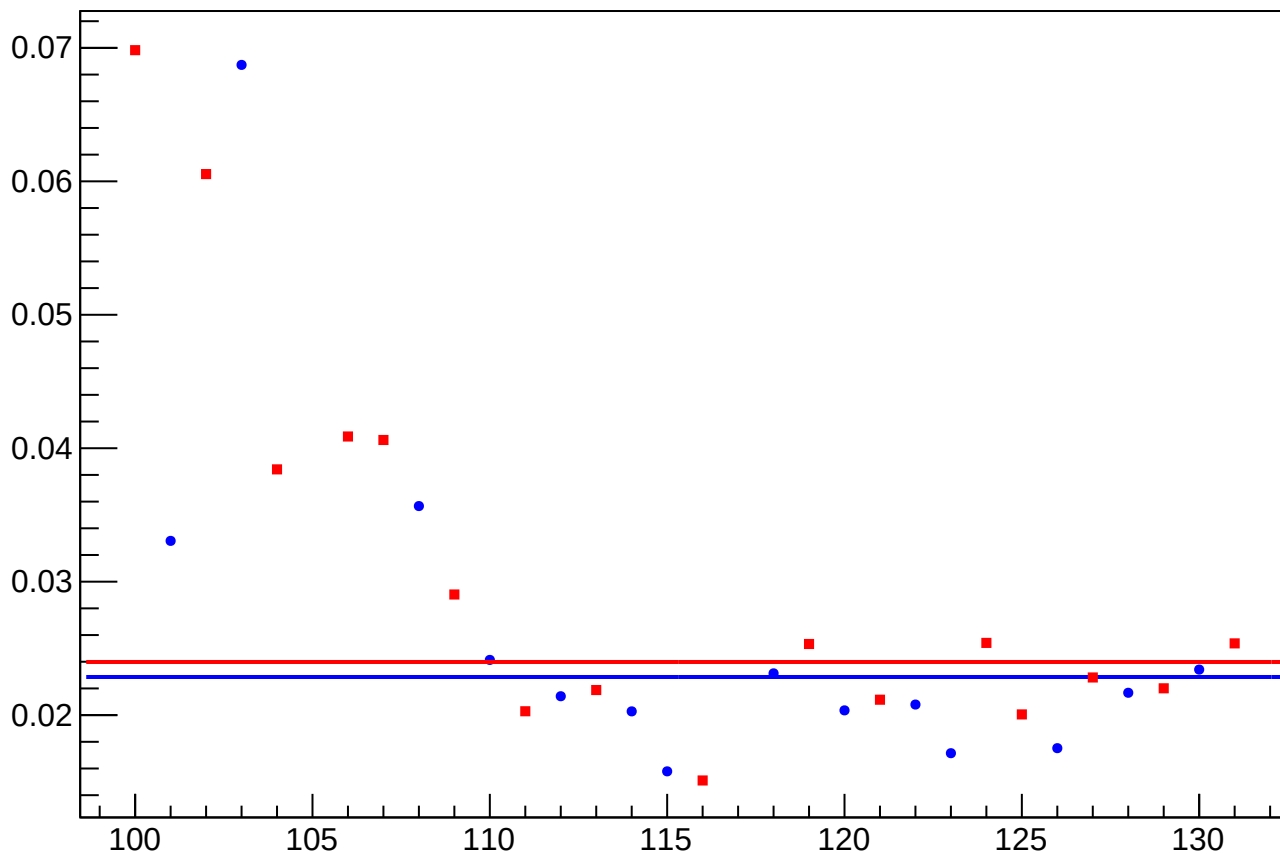
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.097+/-0.000  $\chi^2/\text{NDF}$ : 574922723.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acX\_rms vs Slug



Right In: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 795727.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.024+/-0.000  $\chi^2/\text{NDF}$ : 932351.8/15

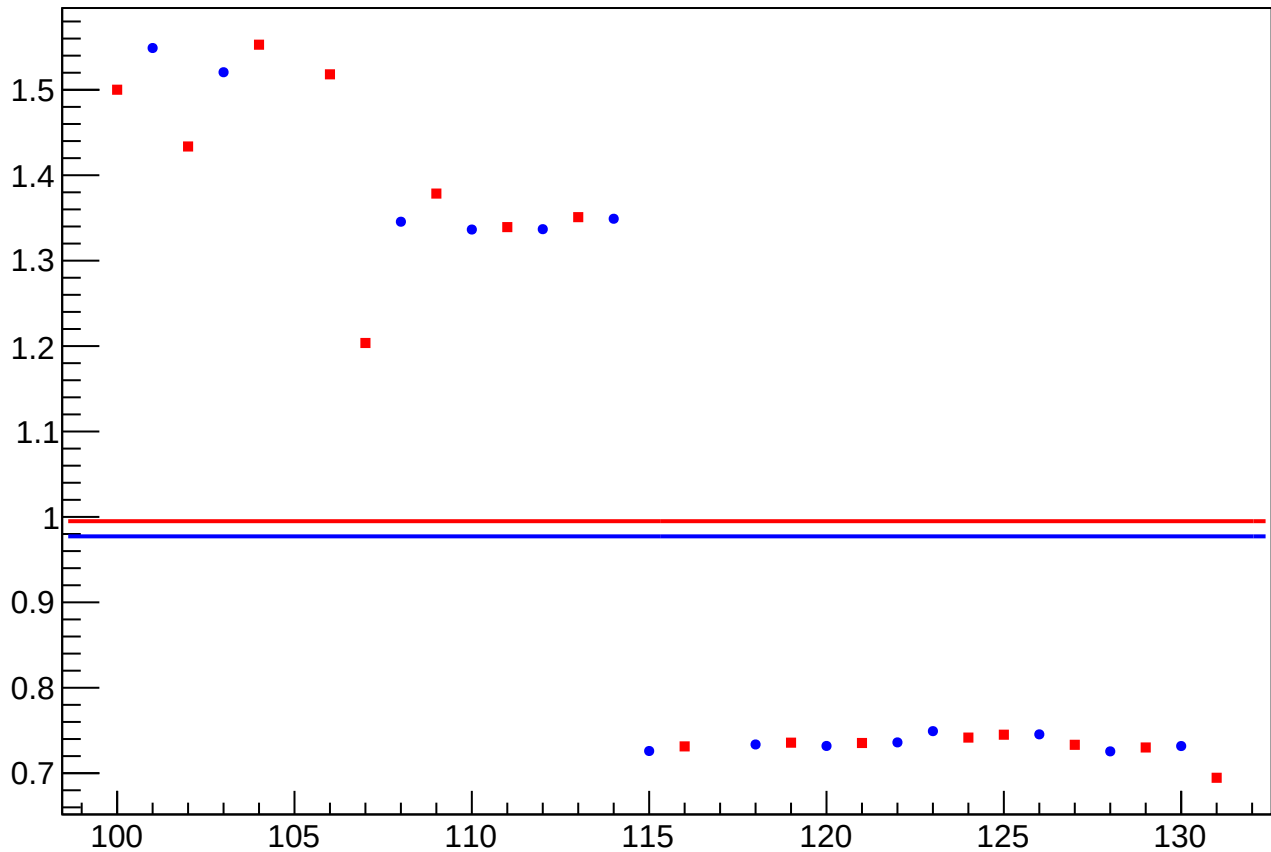
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.023+/-0.000  $\chi^2/\text{NDF}$ : 1737938.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acY\_mean vs Slug



Right In: 0.977+/-0.000  $\chi^2/\text{NDF}$ : 2058728784.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.995+/-0.000  $\chi^2/\text{NDF}$ : 2170556073.7/15

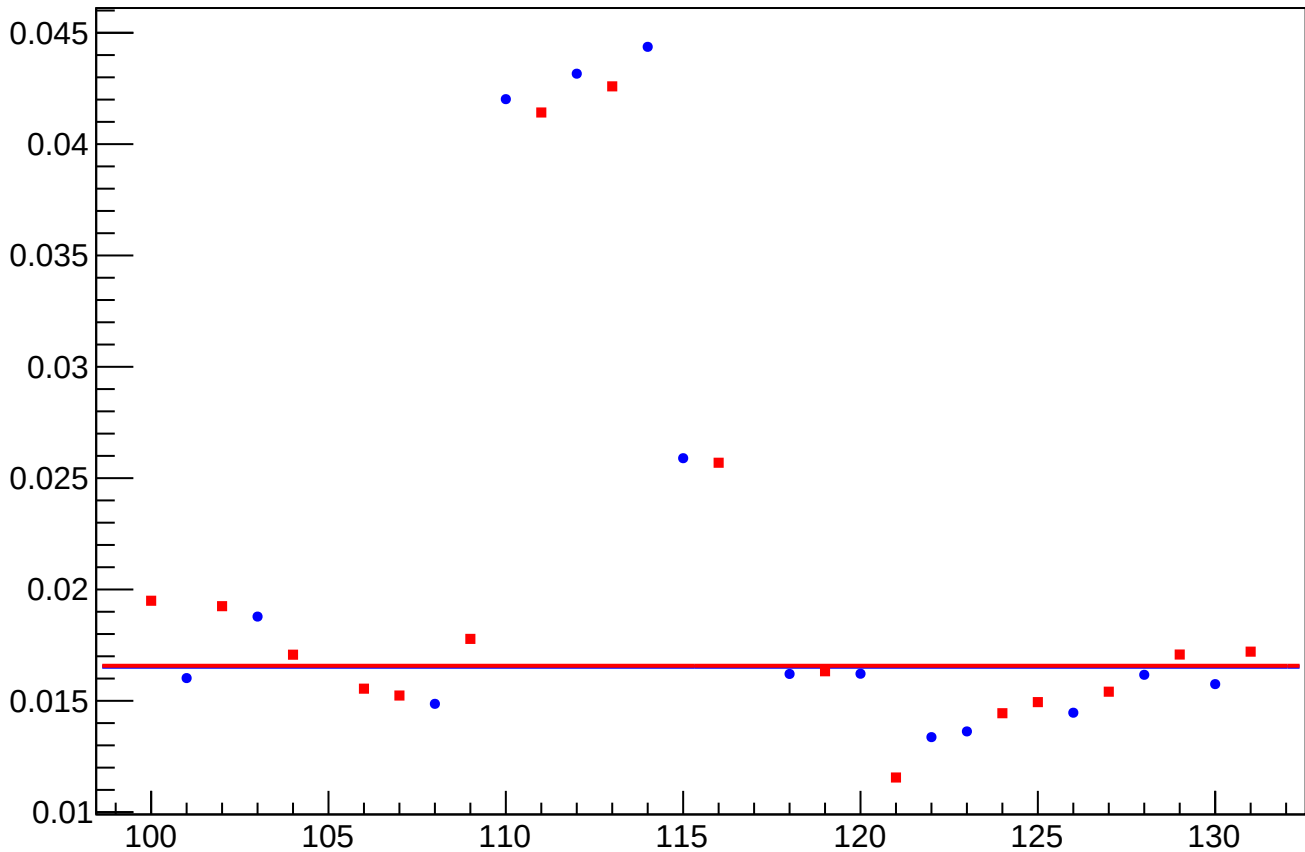
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.987+/-0.000  $\chi^2/\text{NDF}$ : 4232068182.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4acY\_rms vs Slug



Right In: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 781835.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 869616.2/15

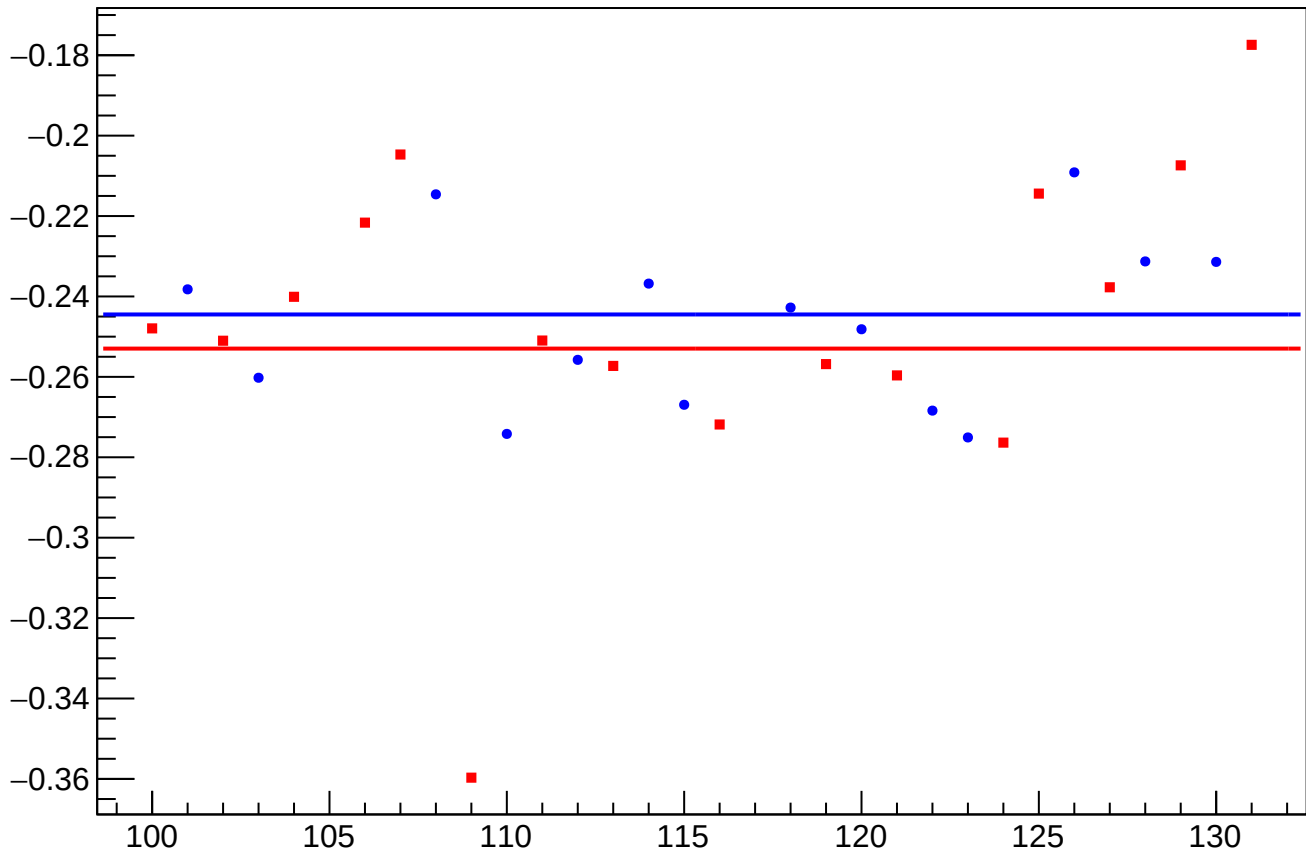
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.017+/-0.000  $\chi^2/\text{NDF}$ : 1651484.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecX\_mean vs Slug



Right In: -0.244+/-0.000  $\chi^2/\text{NDF}$ : 4114866.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.253+/-0.000  $\chi^2/\text{NDF}$ : 18325532.8/15

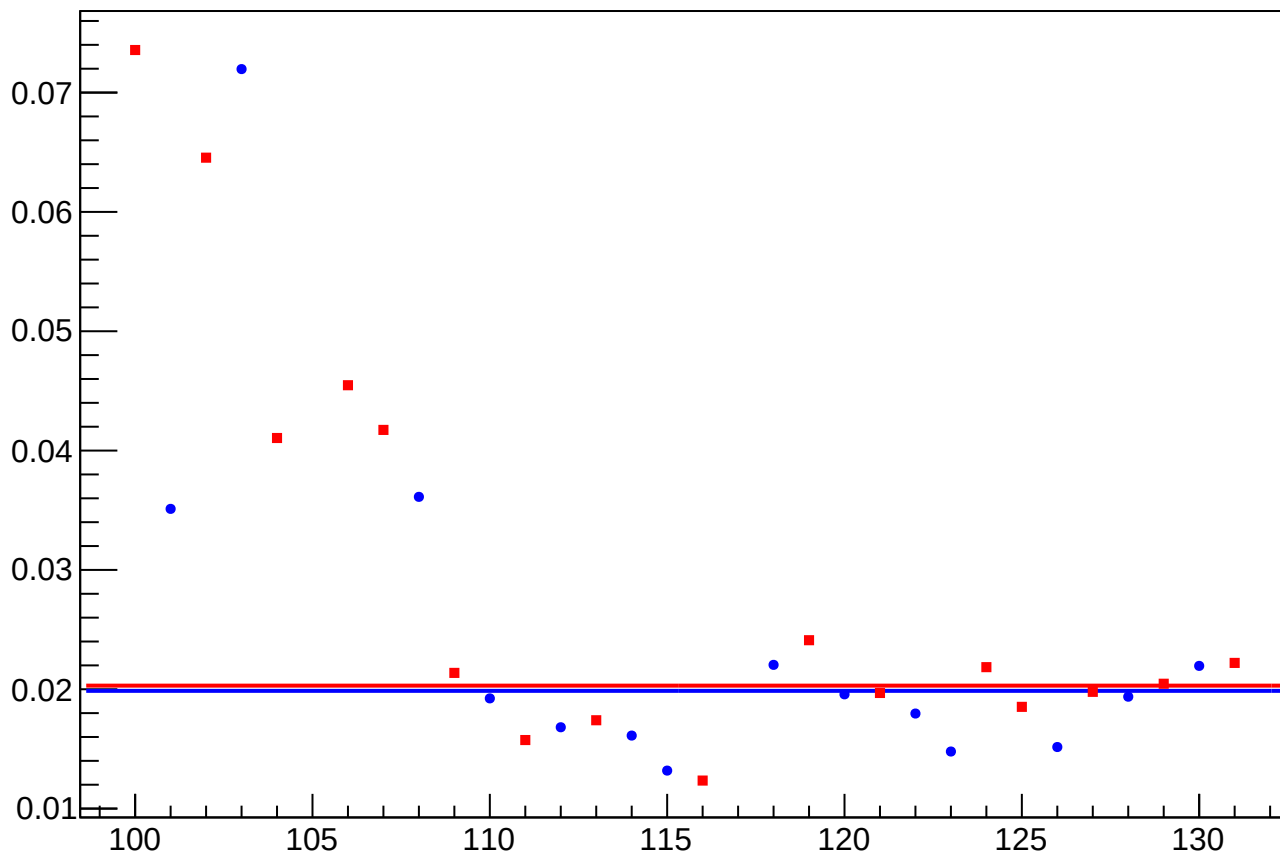
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.249+/-0.000  $\chi^2/\text{NDF}$ : 22809753.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecX\_rms vs Slug



Right In: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1070897.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 1306837.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

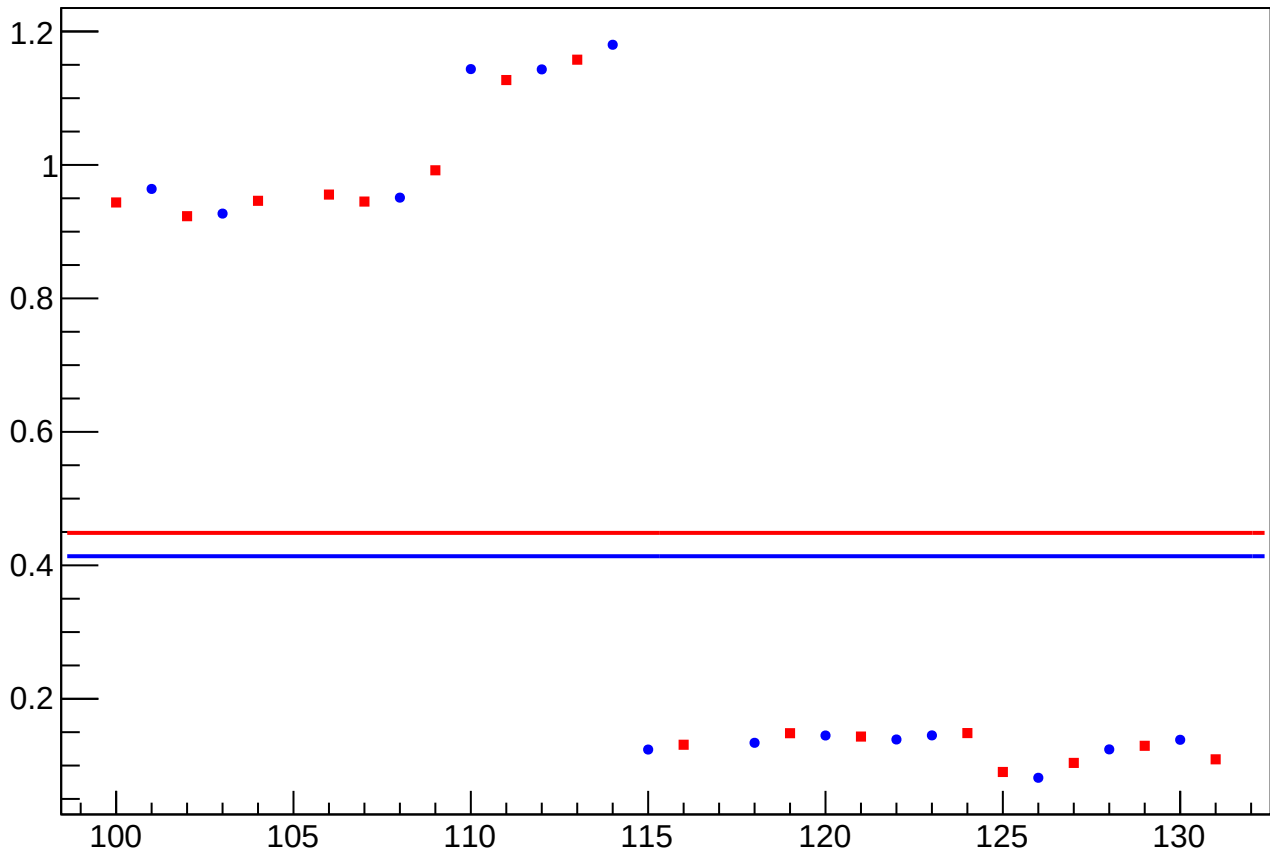
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.020+/-0.000  $\chi^2/\text{NDF}$ : 2379690.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm4ecY\_mean vs Slug



Right In: 0.414+/-0.000  $\chi^2/\text{NDF}$ : 4120285111.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.449+/-0.000  $\chi^2/\text{NDF}$ : 4365443823.0/15

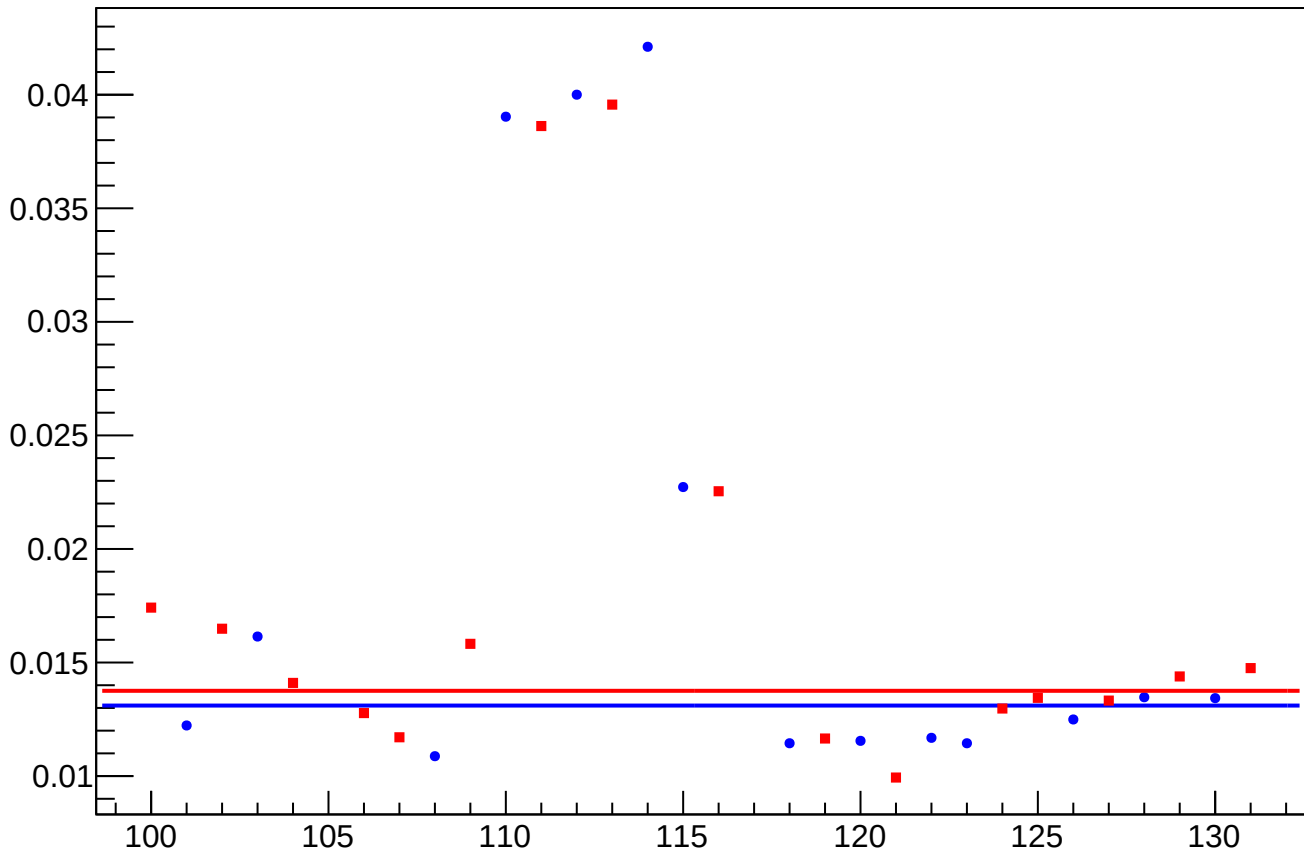
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.431+/-0.000  $\chi^2/\text{NDF}$ : 8501809463.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm4ecY\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 945939.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 989917.3/15

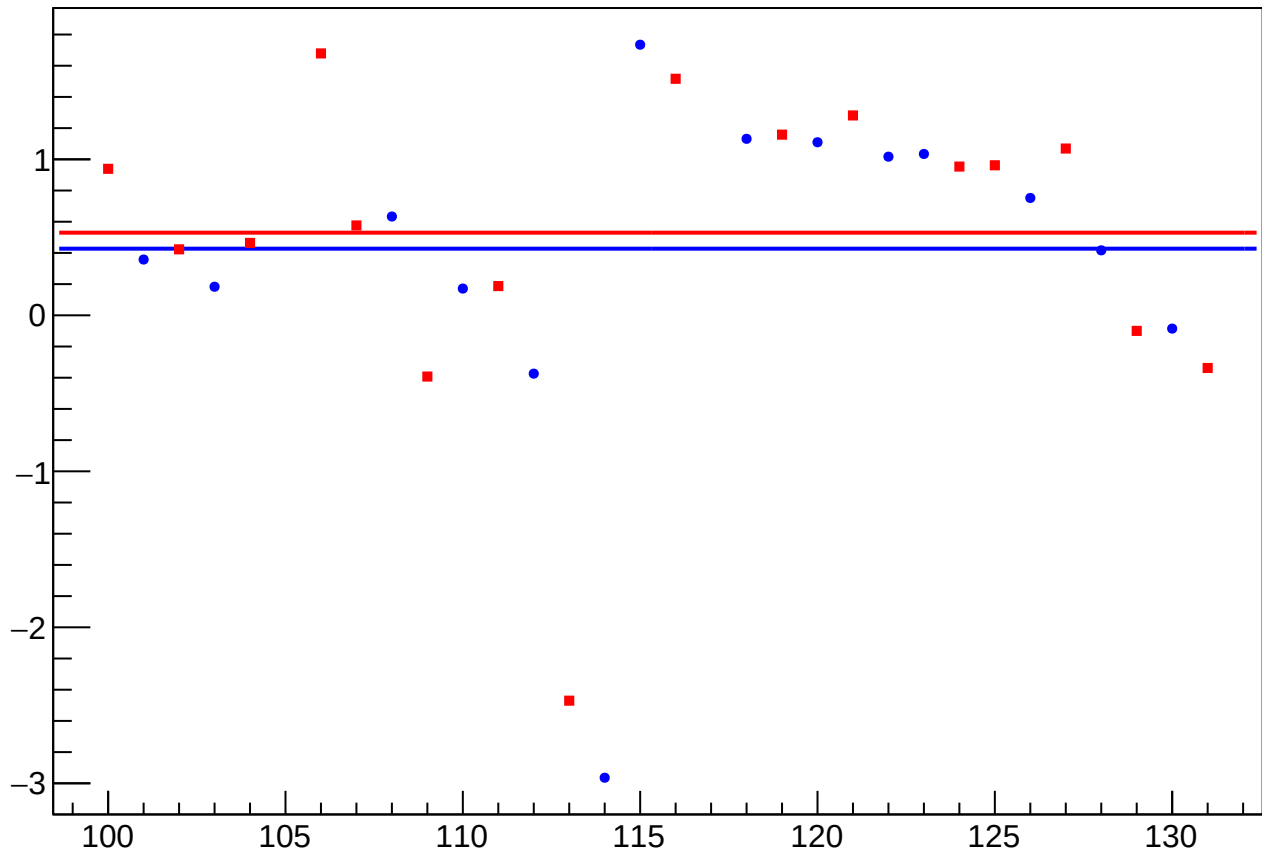
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 1946957.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1X\_mean vs Slug



Right In: 0.427+/-0.000  $\chi^2/\text{NDF}$ : 227207899.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.530+/-0.000  $\chi^2/\text{NDF}$ : 973341323.1/15

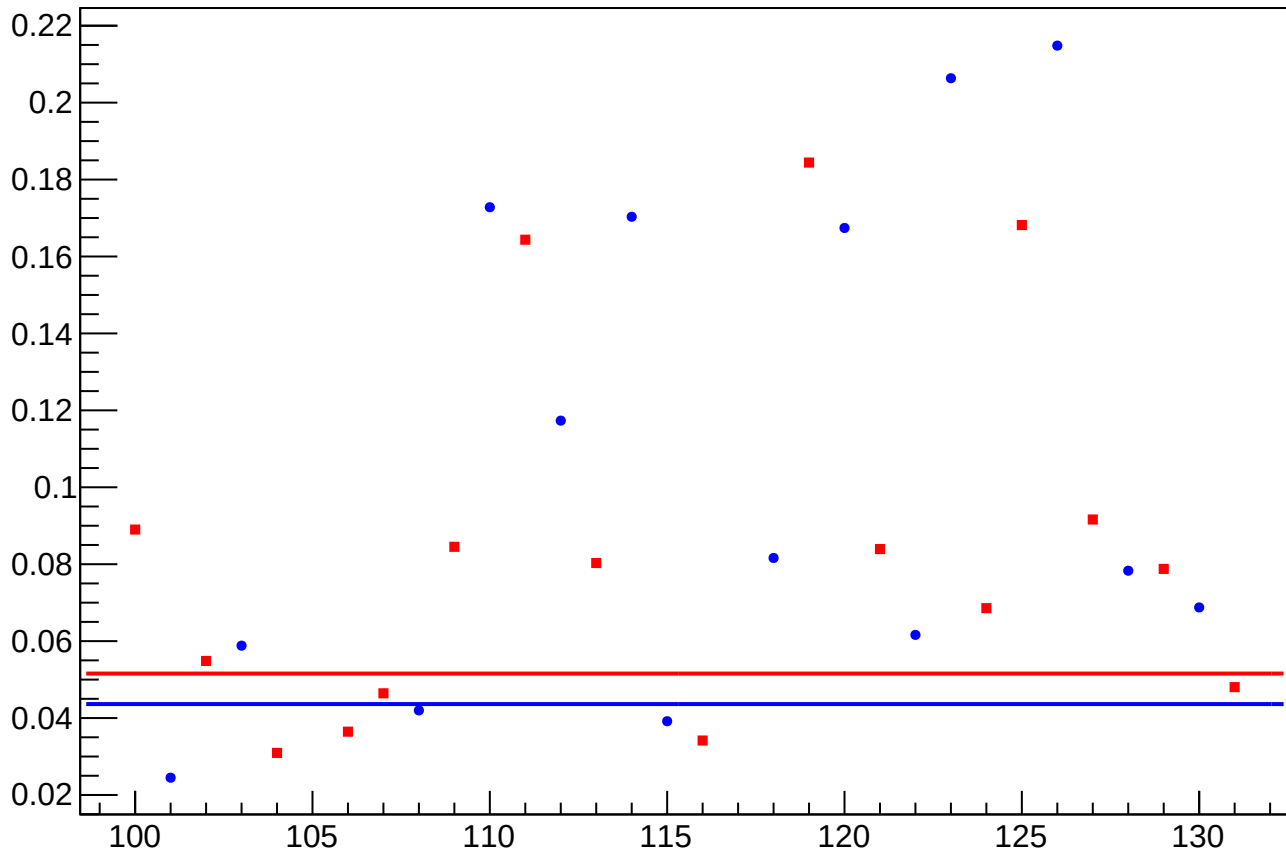
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.475+/-0.000  $\chi^2/\text{NDF}$ : 1207906664.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1X\_rms vs Slug



Right In: 0.044 $\pm$ 0.000  $\chi^2$ /NDF: 2721335.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.052 $\pm$ 0.000  $\chi^2$ /NDF: 2134241.4/15

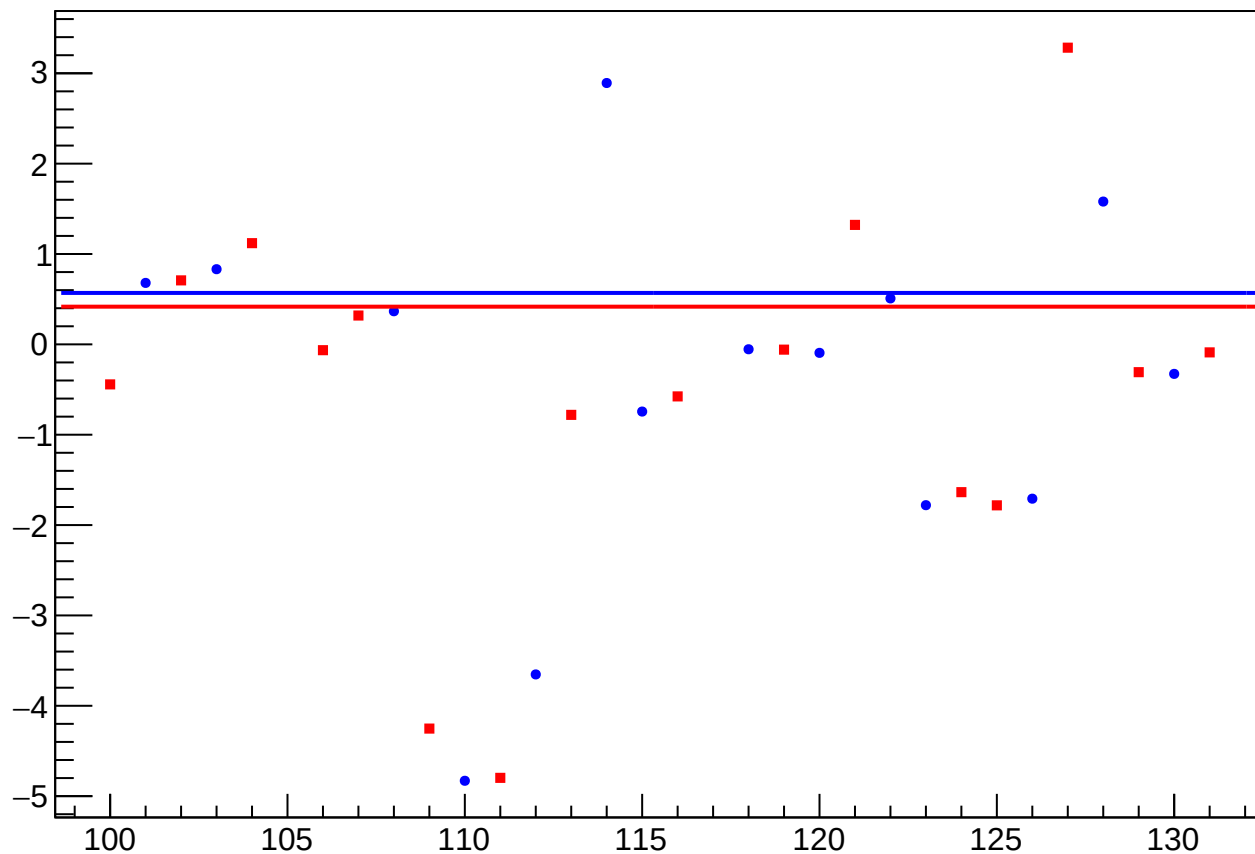
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.047 $\pm$ 0.000  $\chi^2$ /NDF: 4943551.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm1Y\_mean vs Slug



Right In: 0.569+/-0.000  $\chi^2/\text{NDF}$ : 1861256372.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.417+/-0.000  $\chi^2/\text{NDF}$ : 4346154984.4/15

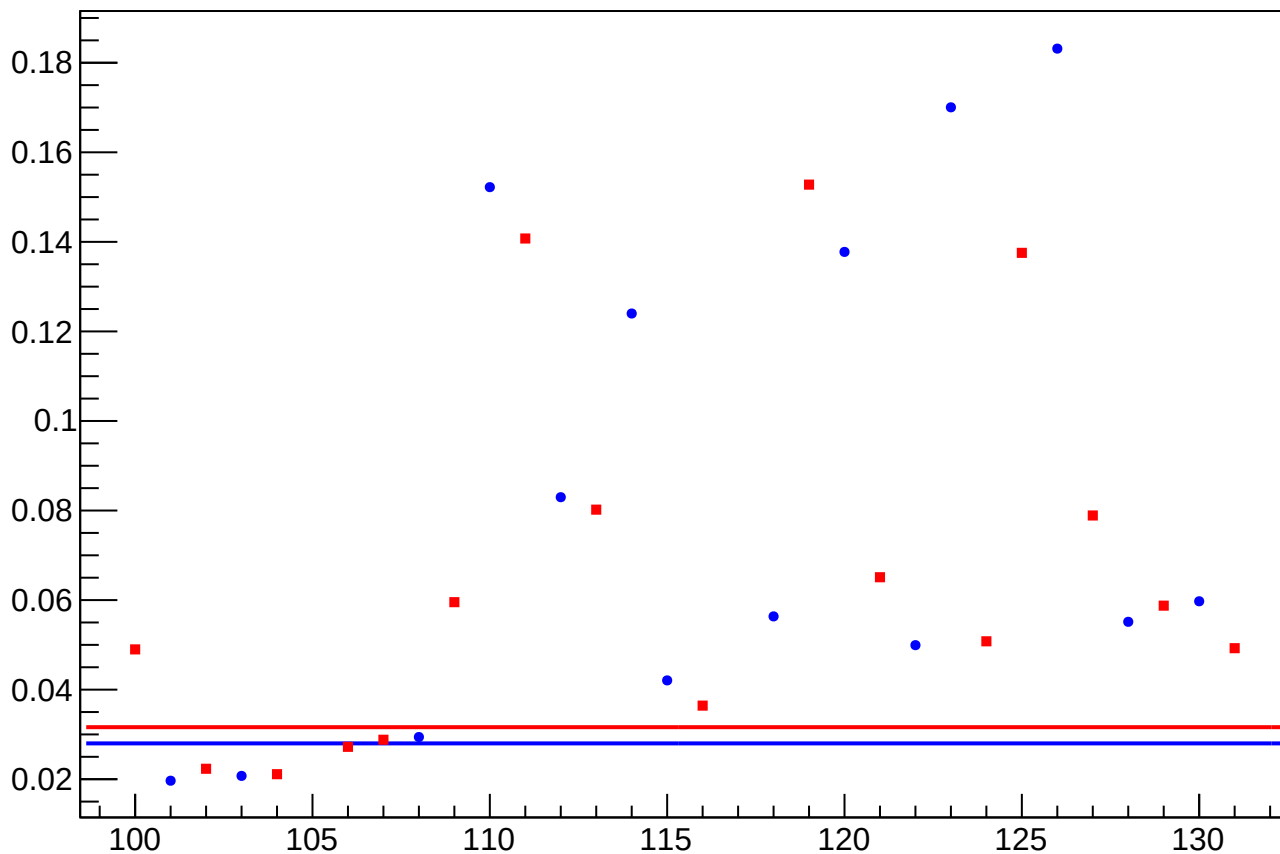
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.496+/-0.000  $\chi^2/\text{NDF}$ : 6246409833.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1Y\_rms vs Slug



Right In: 0.028 $\pm$ 0.000  $\chi^2$ /NDF: 2773594.5/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.032 $\pm$ 0.000  $\chi^2$ /NDF: 2849547.0/15

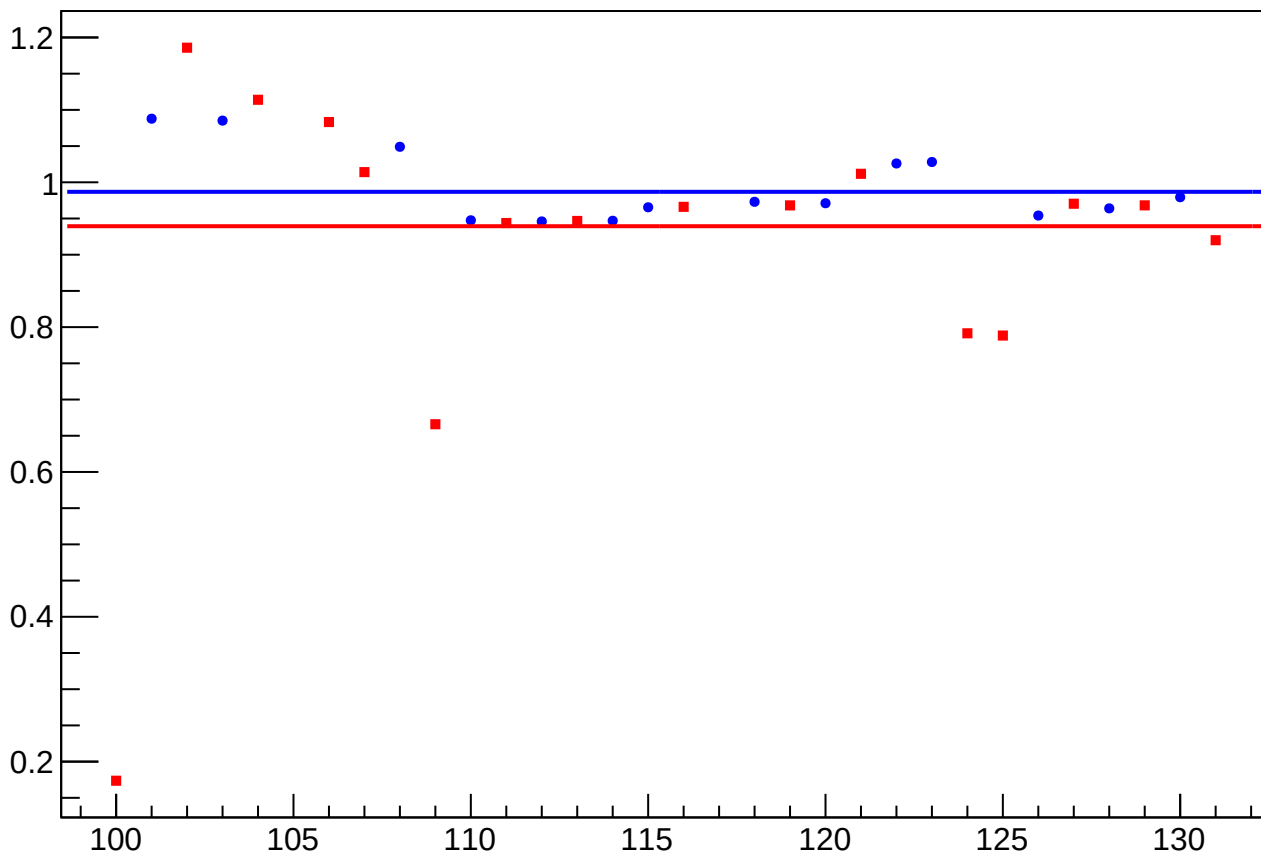
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.030 $\pm$ 0.000  $\chi^2$ /NDF: 5667349.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm11X\_mean vs Slug



Right In: 0.987 $\pm$ 0.000  $\chi^2$ /NDF: 48291351.3/13

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

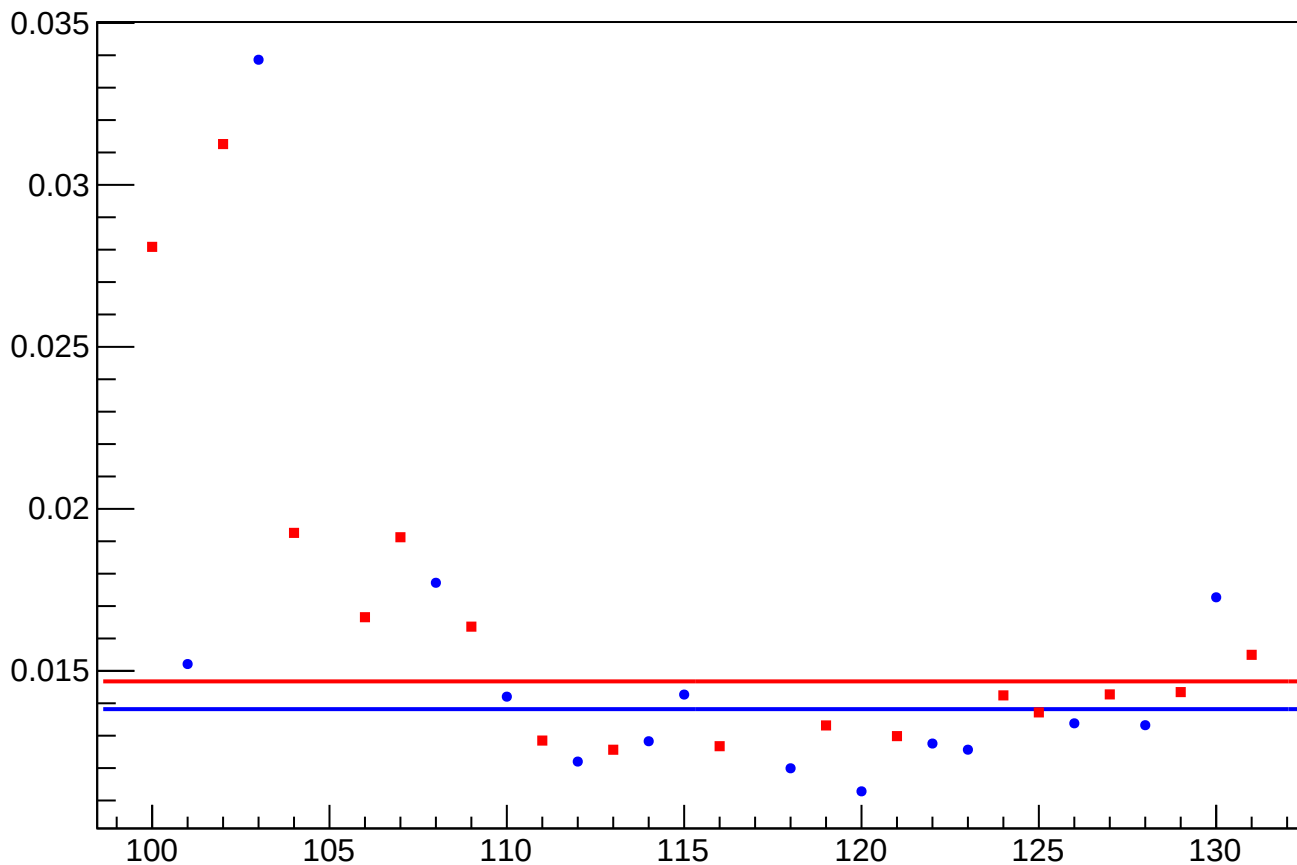
Right Out: 0.939 $\pm$ 0.000  $\chi^2$ /NDF: 324802492.9/15

All: 0.963 $\pm$ 0.000  $\chi^2$ /NDF: 399618715.4/29

- 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\_bpm11X\_rms vs Slug



Right In: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 519446.3/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.015 $\pm$ 0.000  $\chi^2$ /NDF: 470114.7/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

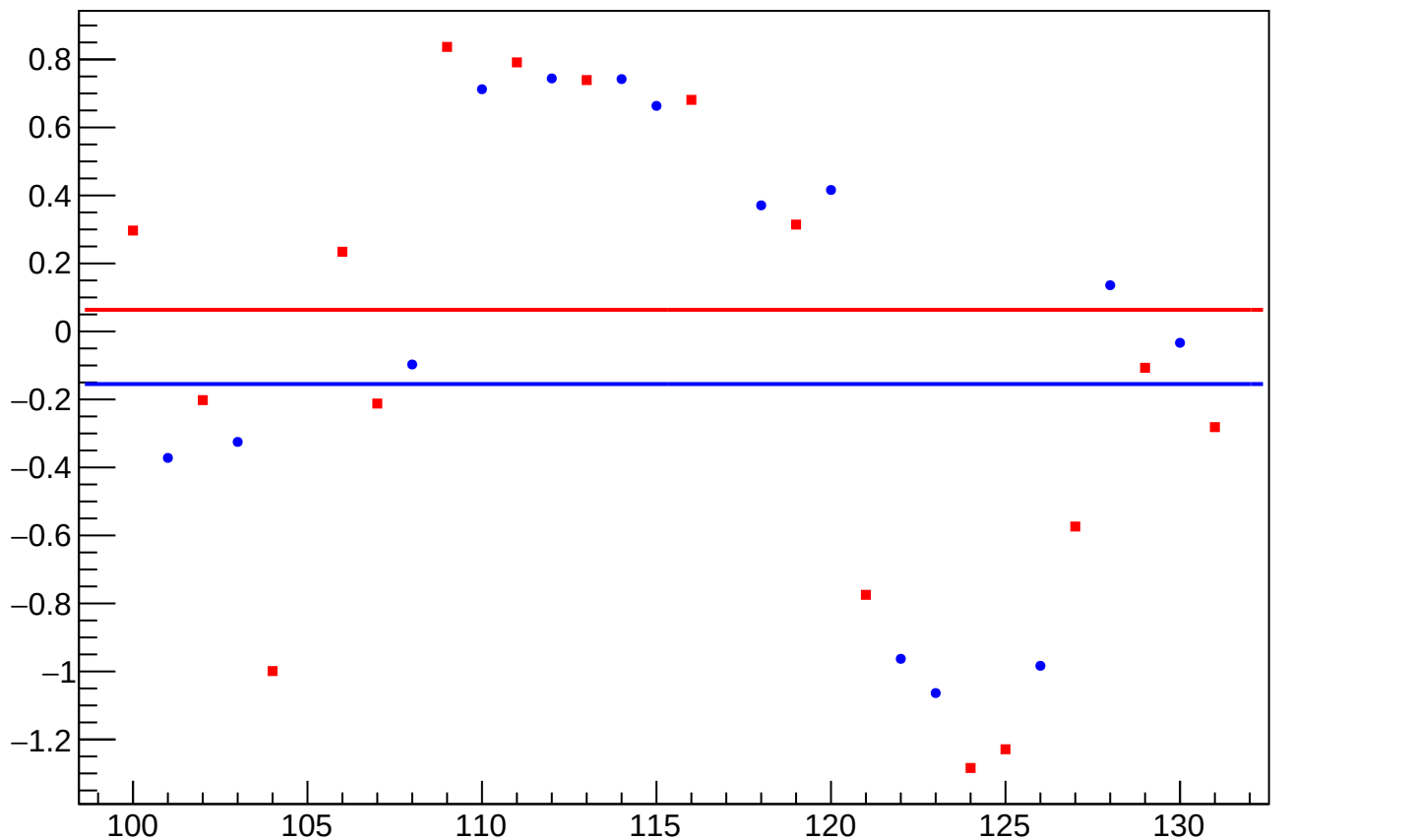
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 1006823.8/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm11Y\_mean vs Slug



Right In: -0.155+/-0.000  $\chi^2/\text{NDF}$ : 4636253200.8/13

+ 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

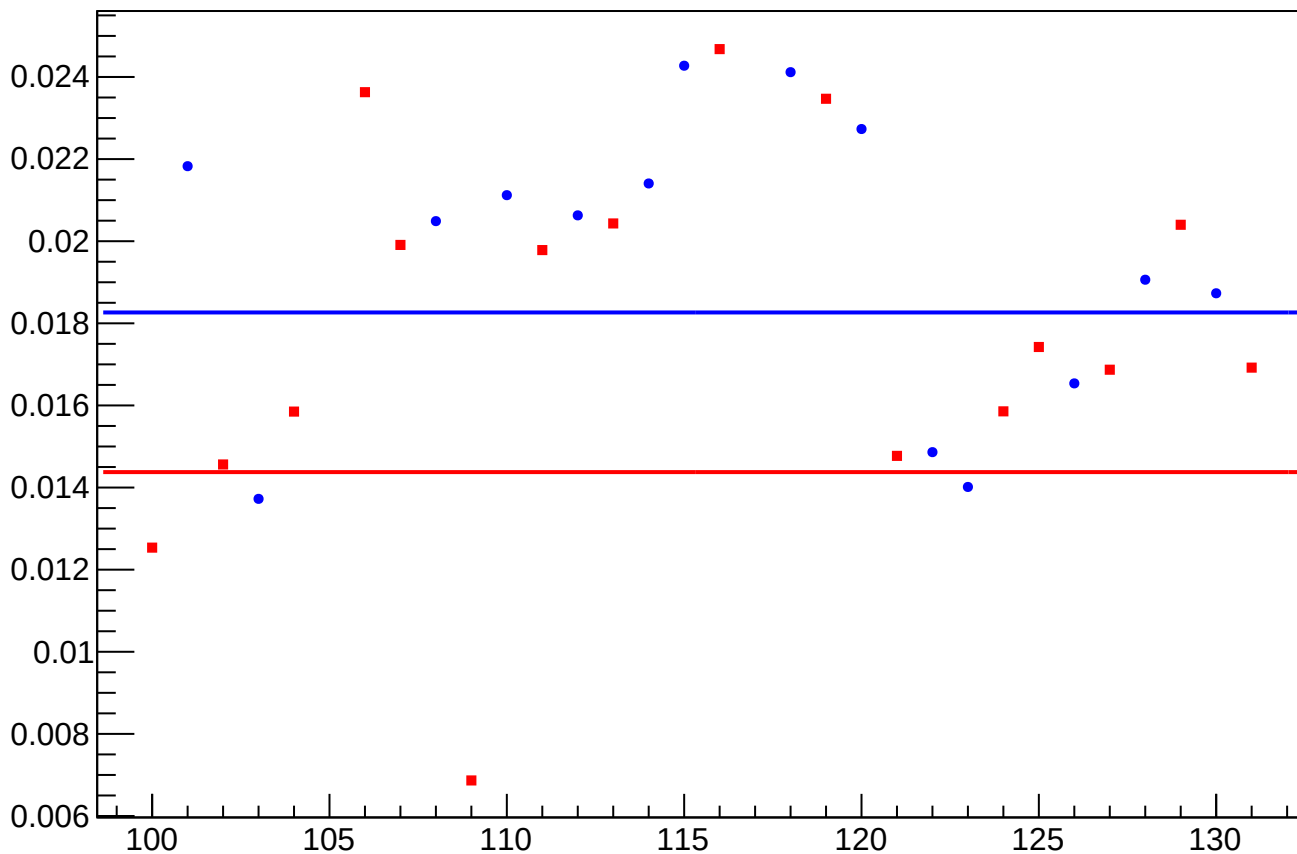
Right Out: 0.064+/-0.000  $\chi^2/\text{NDF}$ : 12017003113.6/15

All: -0.021+/-0.000  $\chi^2/\text{NDF}$ : 17066564340.9/17

- 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\_bpm11Y\_rms vs Slug



Right In: 0.018+/-0.000  $\chi^2/\text{NDF}$ : 334715.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 1391216.4/15

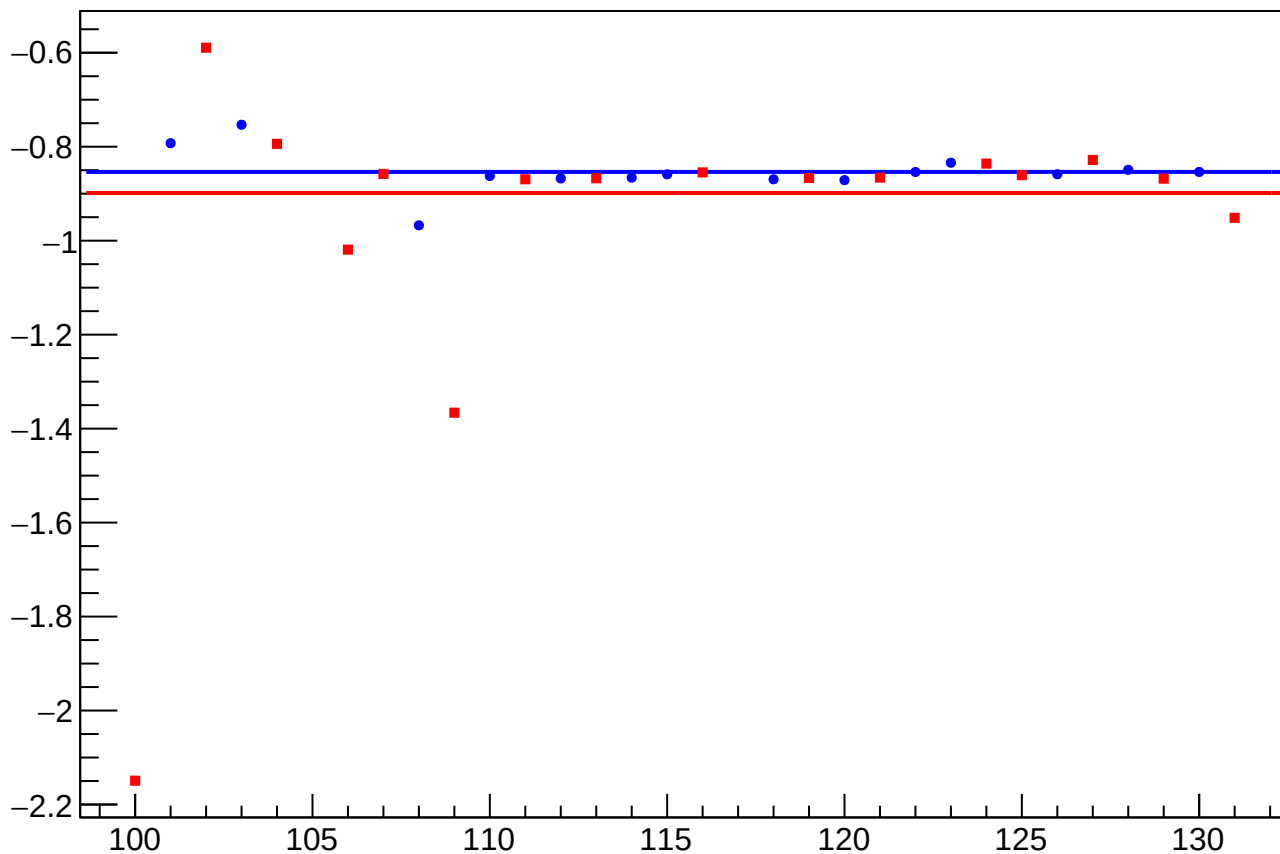
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 1988087.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12X\_mean vs Slug



Right In: -0.854+/-0.000  $\chi^2$ /NDF: 6298602.3/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -0.898+/-0.000  $\chi^2$ /NDF: 112788536.9/15

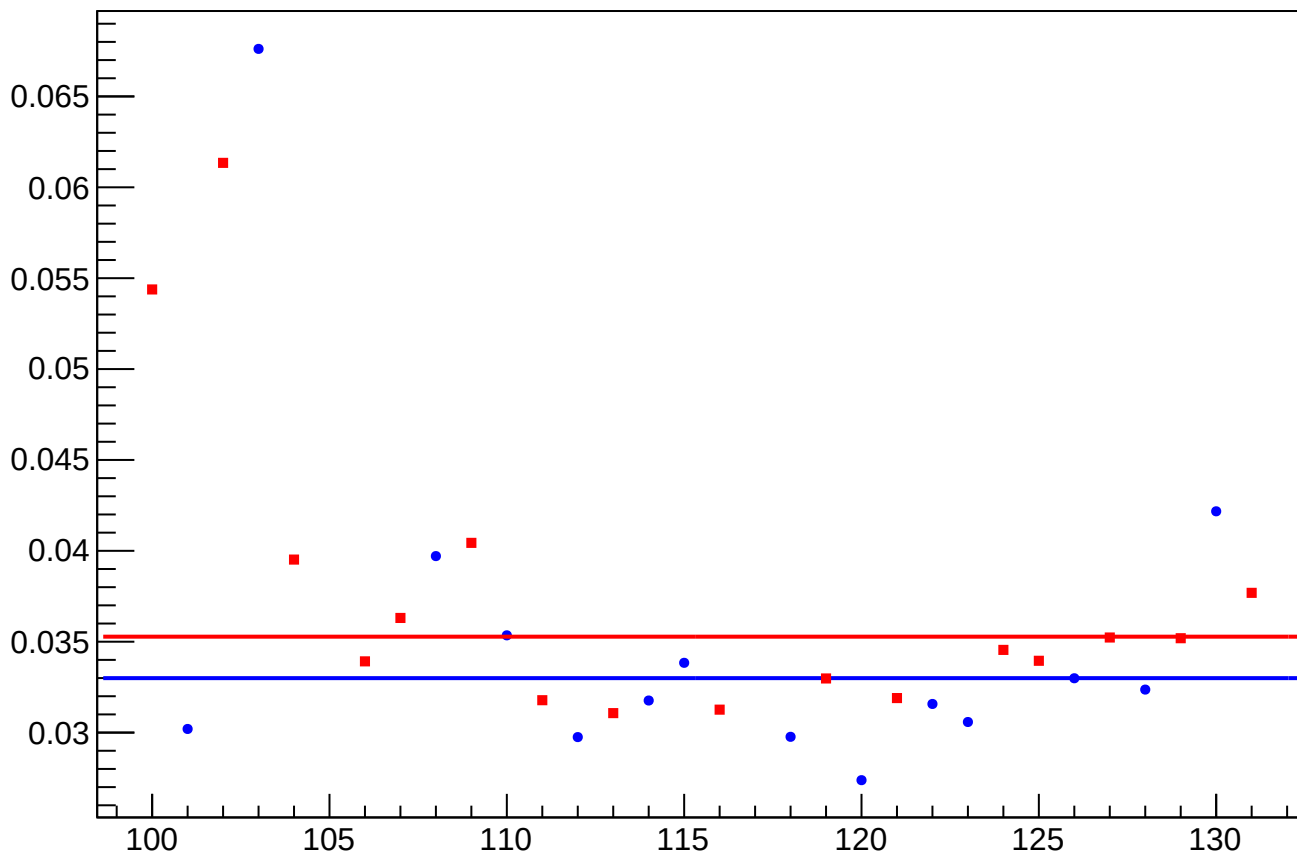
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -0.876+/-0.000  $\chi^2$ /NDF: 123244184.8/29

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm12X\_rms vs Slug



Right In: 0.033+/-0.000  $\chi^2/\text{NDF}$ : 391328.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.035+/-0.000  $\chi^2/\text{NDF}$ : 259565.0/15

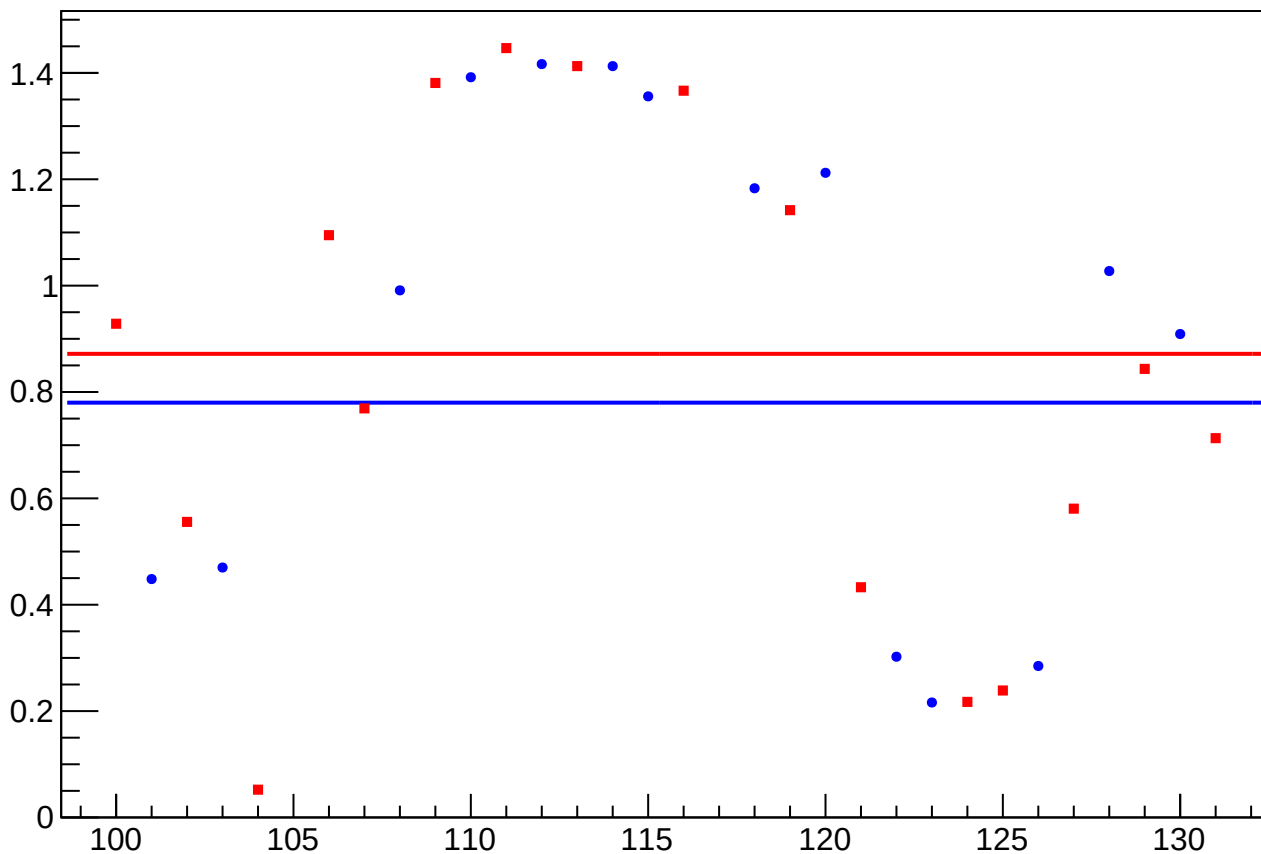
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.034+/-0.000  $\chi^2/\text{NDF}$ : 672470.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12Y\_mean vs Slug



Right In: 0.780+/-0.000  $\chi^2/\text{NDF}$ : 5346665526.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.872+/-0.000  $\chi^2/\text{NDF}$ : 9329822561.1/15

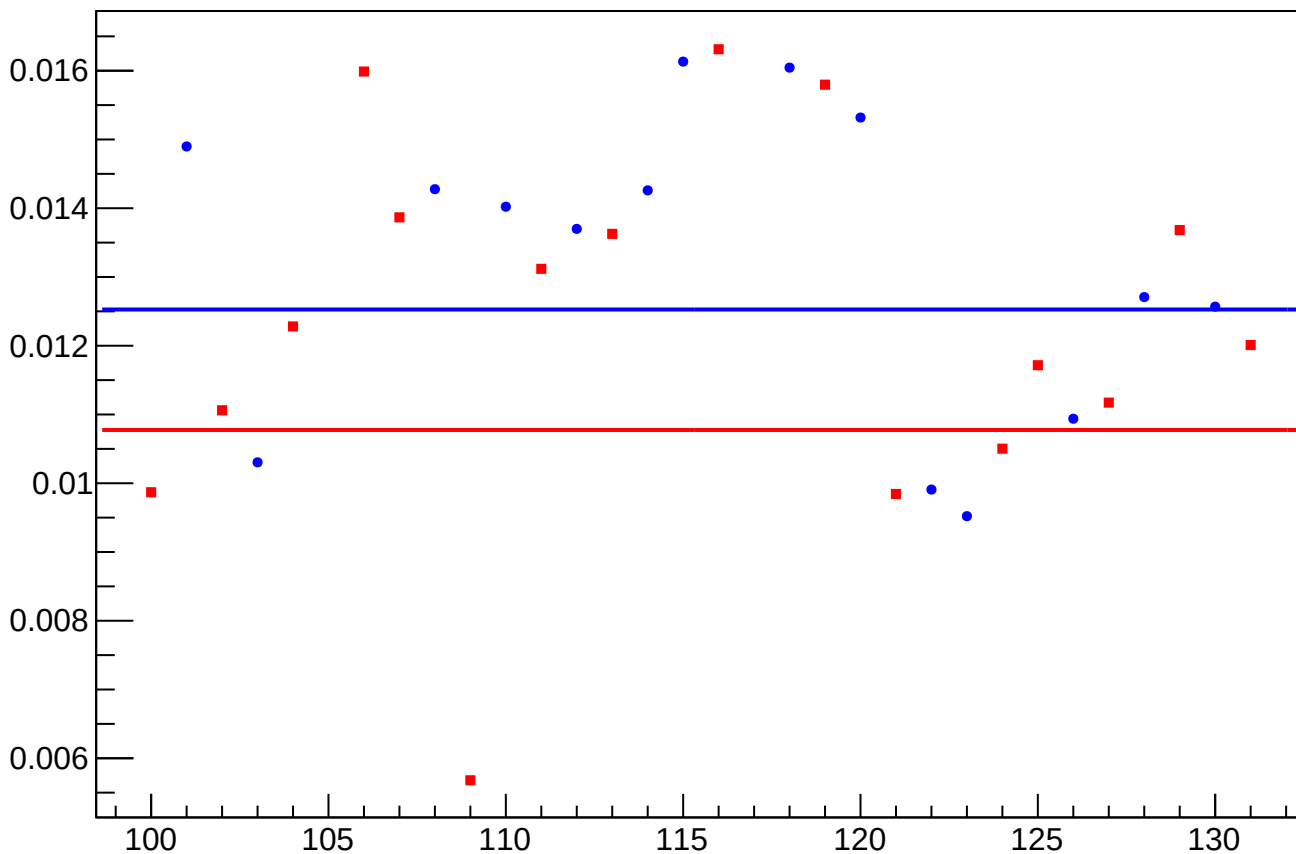
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.833+/-0.000  $\chi^2/\text{NDF}$ : 14825306041.2/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm12Y\_rms vs Slug



Right In: 0.013 $\pm$ 0.000  $\chi^2$ /NDF: 259081.8/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 883925.8/15

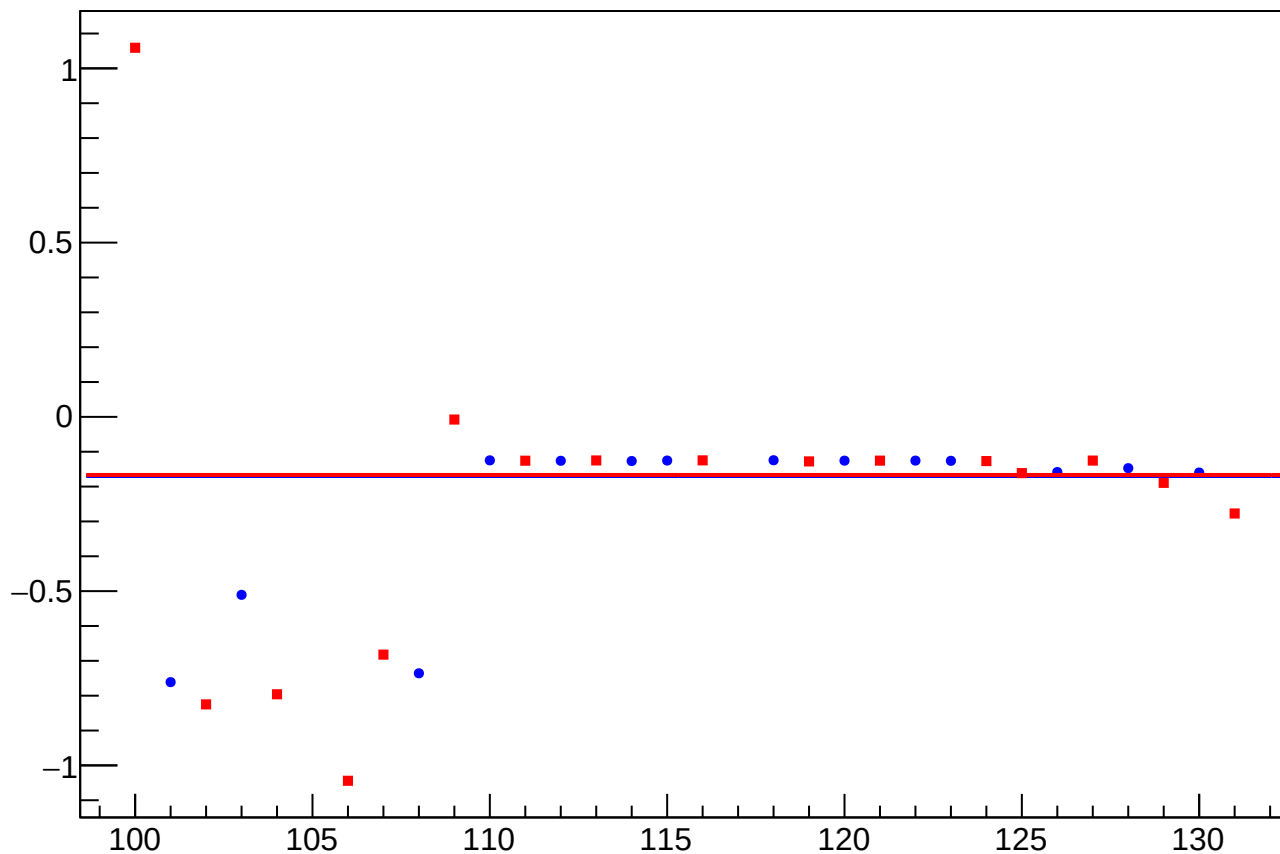
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.012 $\pm$ 0.000  $\chi^2$ /NDF: 1251398.2/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm16X\_mean vs Slug



Right In: -0.170+/-0.000  $\chi^2/\text{NDF}$ : 356259208.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.167+/-0.000  $\chi^2/\text{NDF}$ : 442282223.5/15

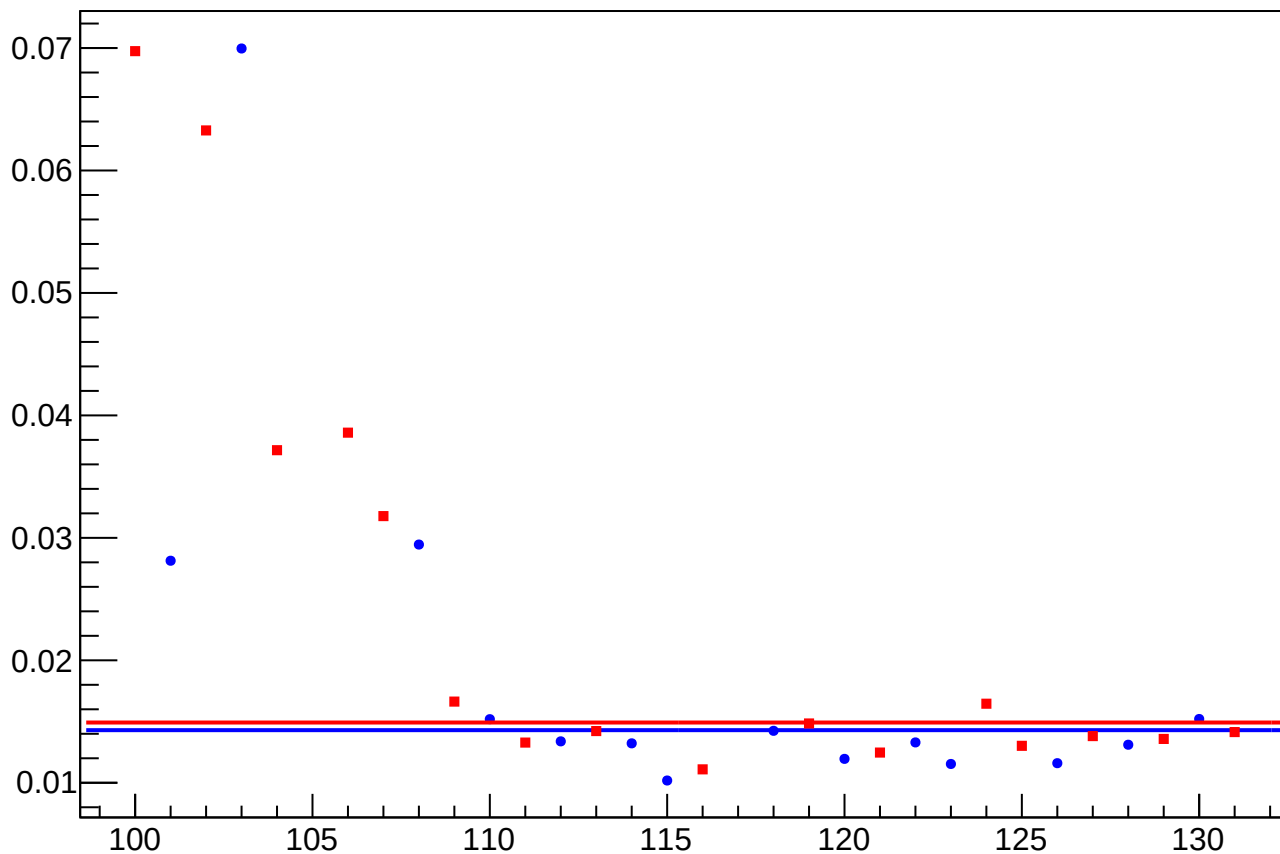
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.168+/-0.000  $\chi^2/\text{NDF}$ : 798621848.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16X\_rms vs Slug



Right In: 0.014 $\pm$ 0.000  $\chi^2$ /NDF: 1185203.6/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.015 $\pm$ 0.000  $\chi^2$ /NDF: 1349379.7/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

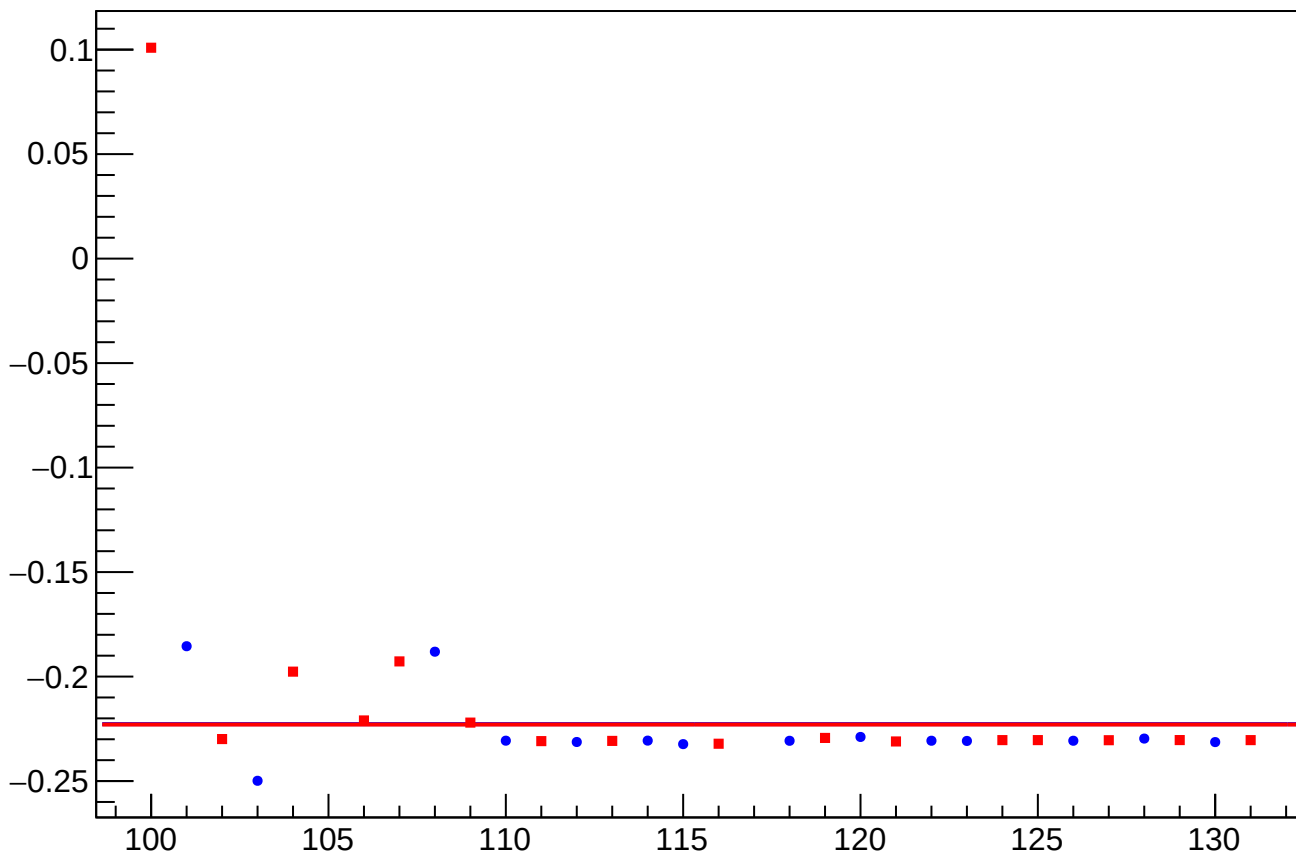
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.015 $\pm$ 0.000  $\chi^2$ /NDF: 2541849.4/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm16Y\_mean vs Slug



Right In: -0.223+/-0.000  $\chi^2/\text{NDF}$ : 73170544.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.223+/-0.000  $\chi^2/\text{NDF}$ : 167483581.8/15

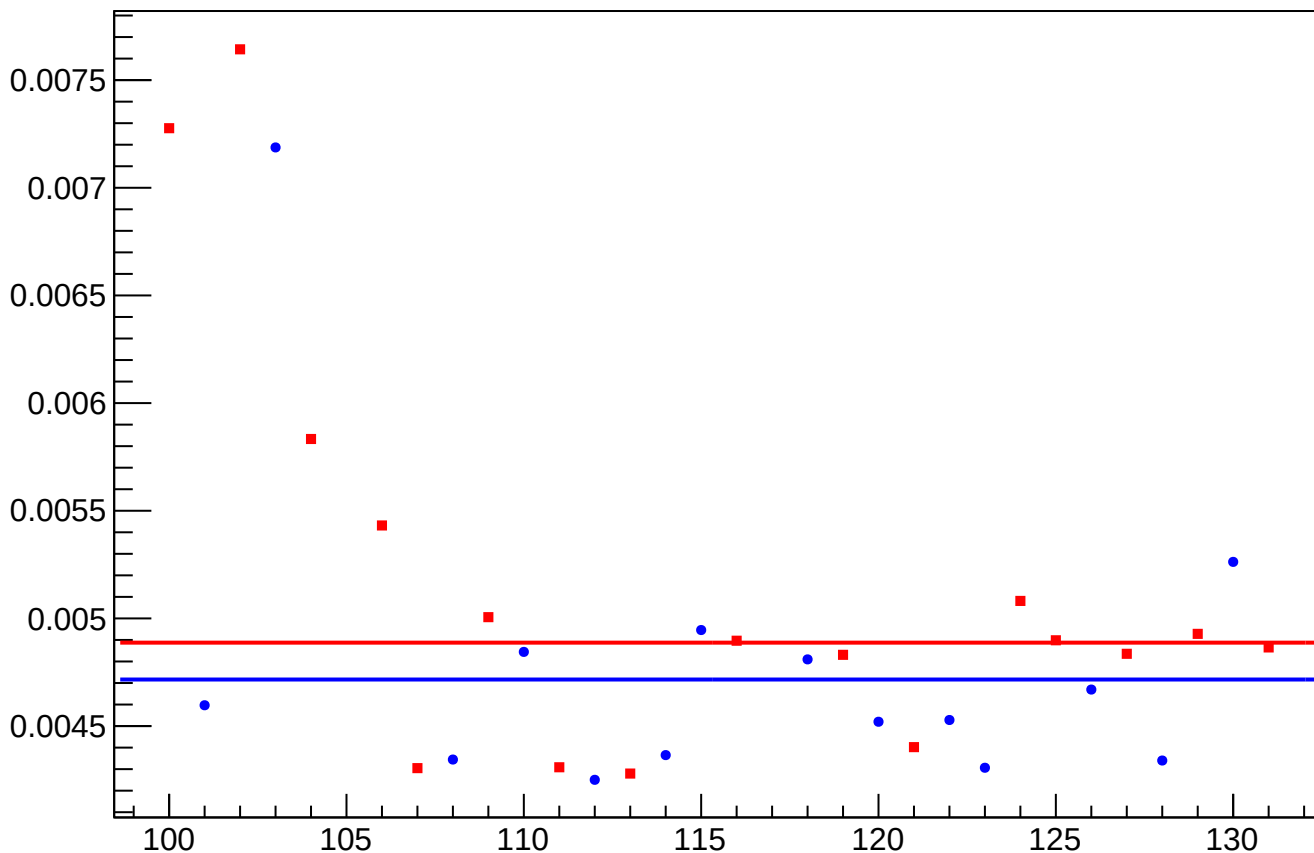
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.223+/-0.000  $\chi^2/\text{NDF}$ : 240657870.3/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm16Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 163614.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 226346.7/15

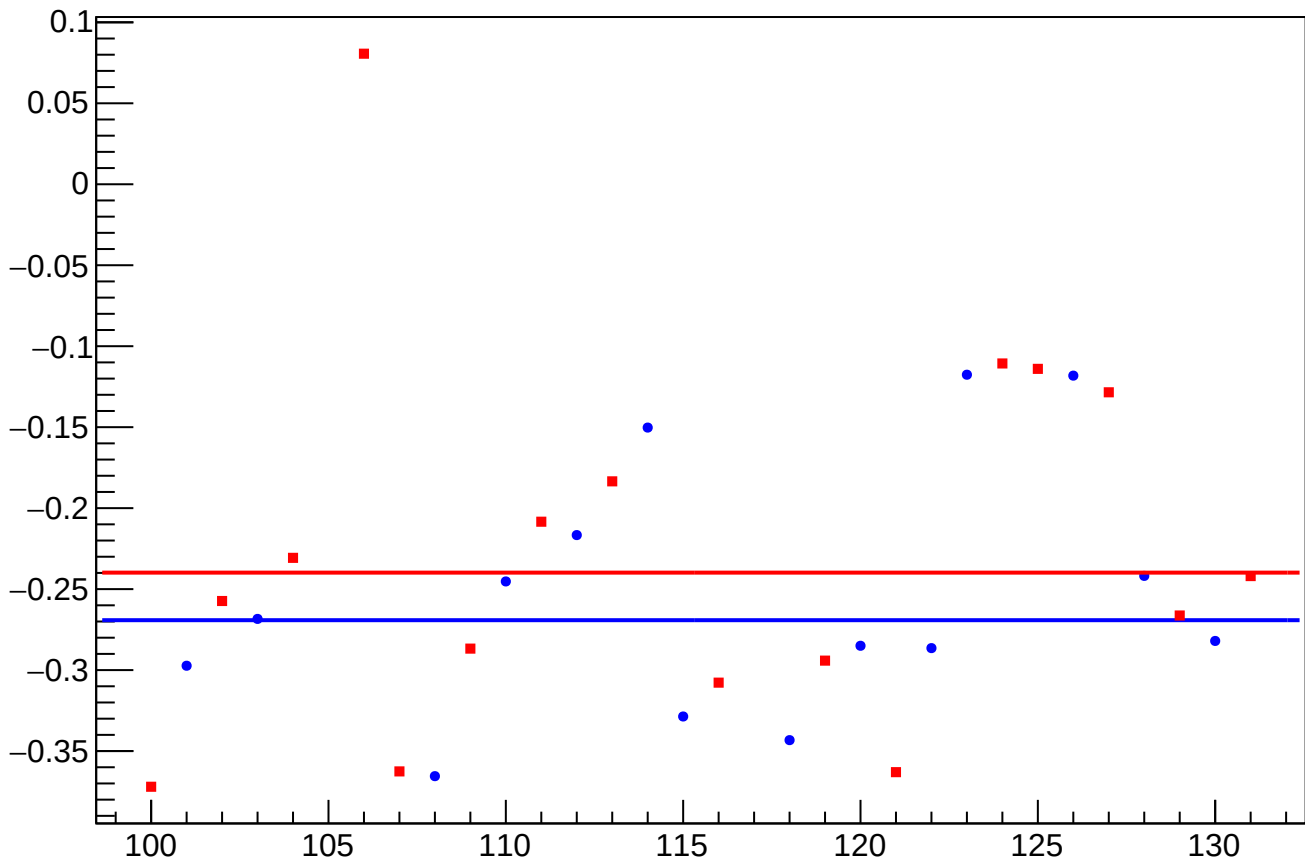
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 396377.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02X\_mean vs Slug



Right In: -0.269+/-0.000  $\chi^2/\text{NDF}$ : 474988676.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.240+/-0.000  $\chi^2/\text{NDF}$ : 1053173370.8/15

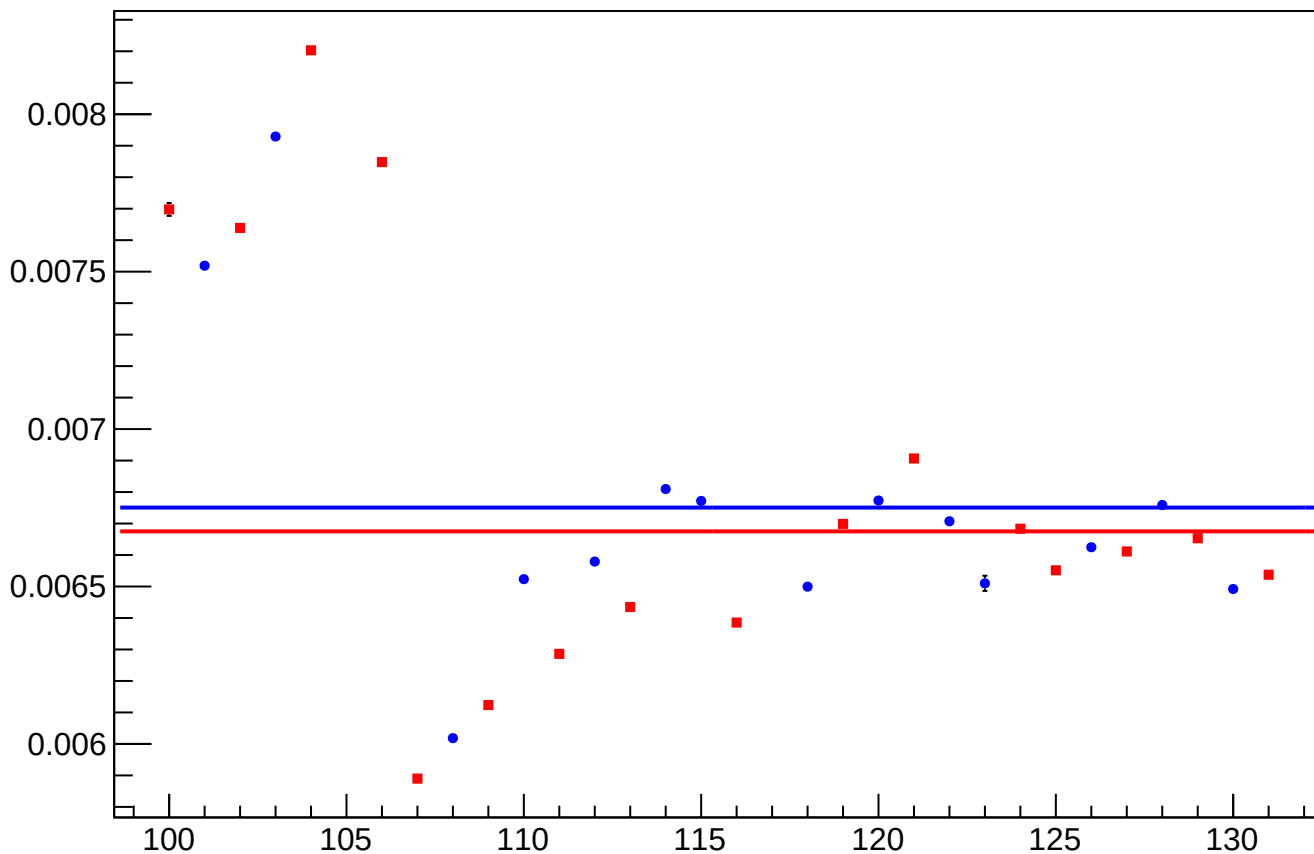
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.253+/-0.000  $\chi^2/\text{NDF}$ : 1580353410.3/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 53154.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 89362.1/15

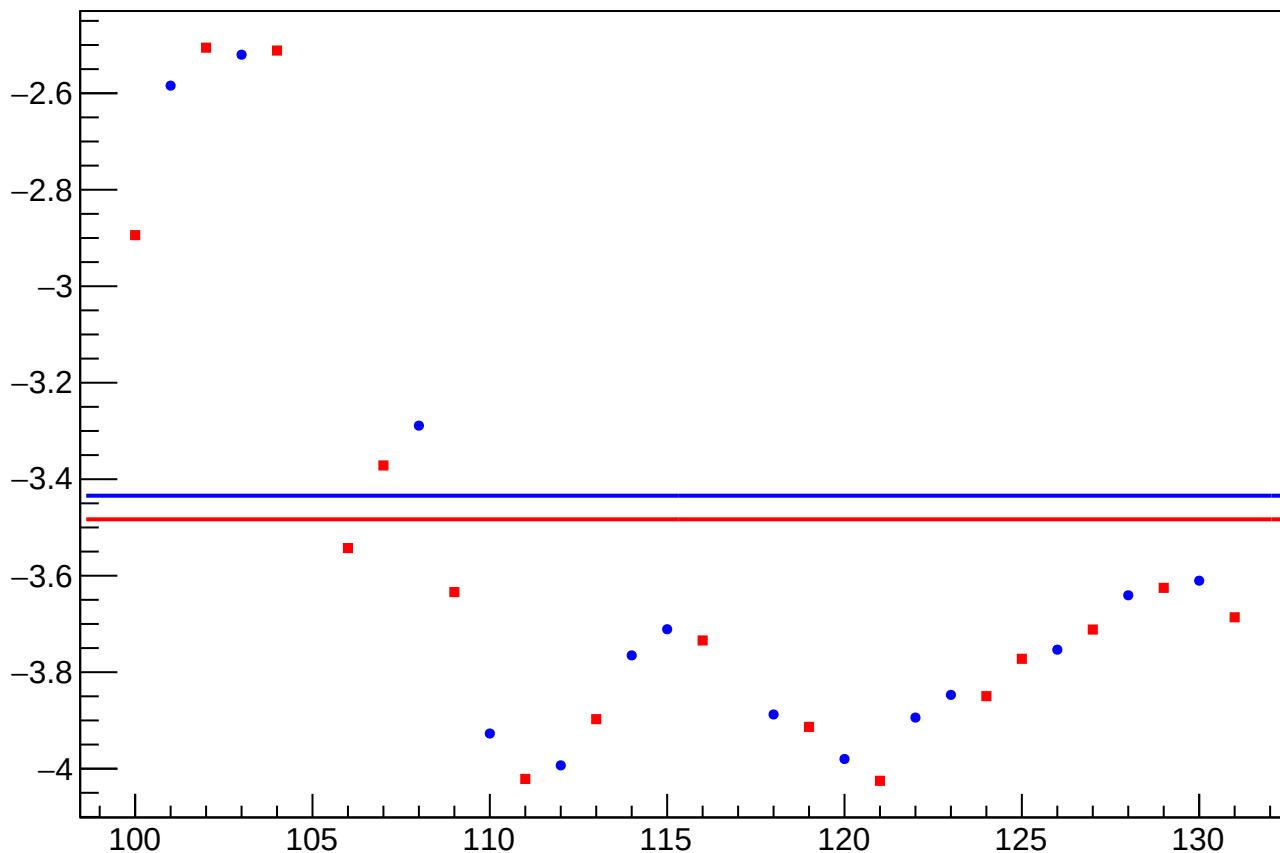
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 143208.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02Y\_mean vs Slug



Right In: -3.434+/-0.000  $\chi^2/\text{NDF}$ : 26038831526.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -3.483+/-0.000  $\chi^2/\text{NDF}$ : 25415135805.0/15

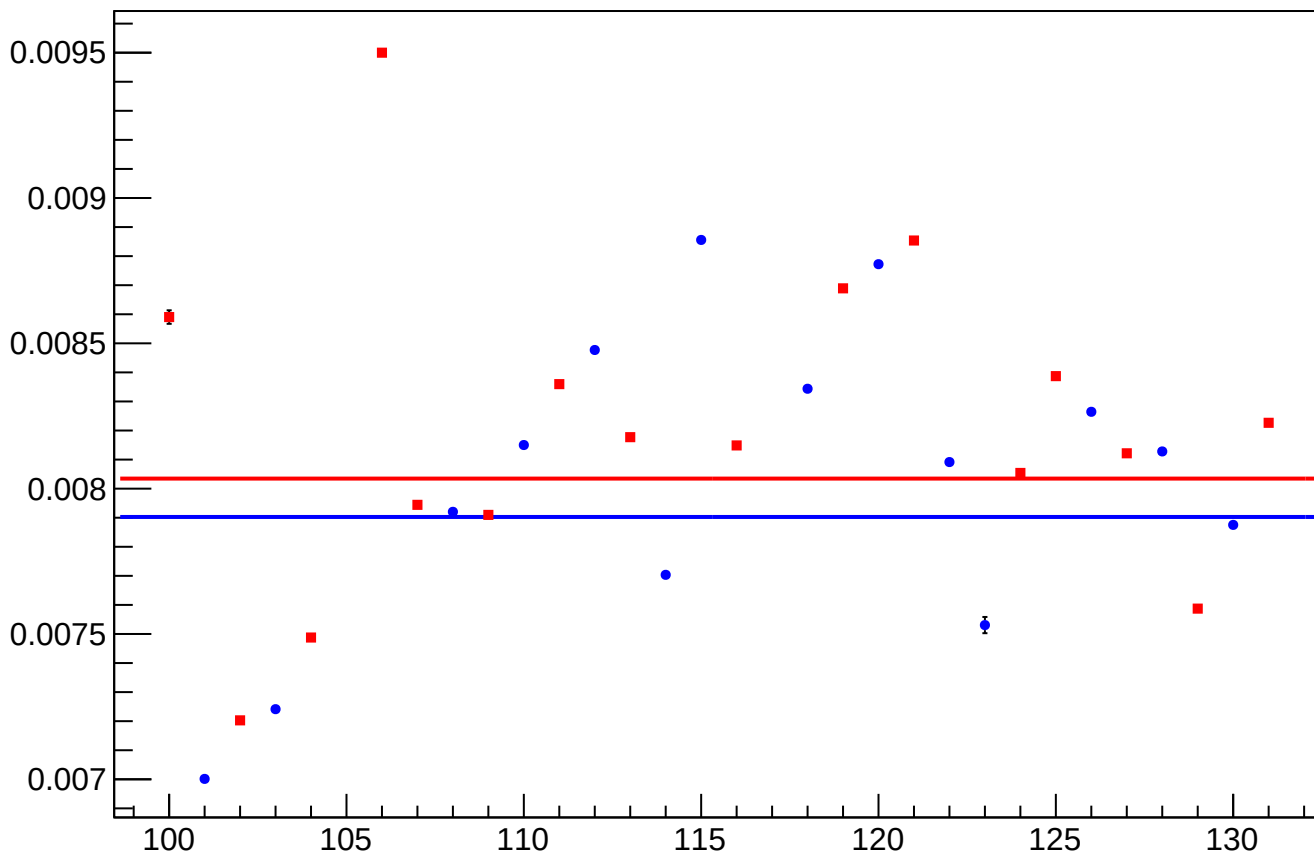
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -3.460+/-0.000  $\chi^2/\text{NDF}$ : 51555491967.7

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02Y\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 48067.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 45276.9/15

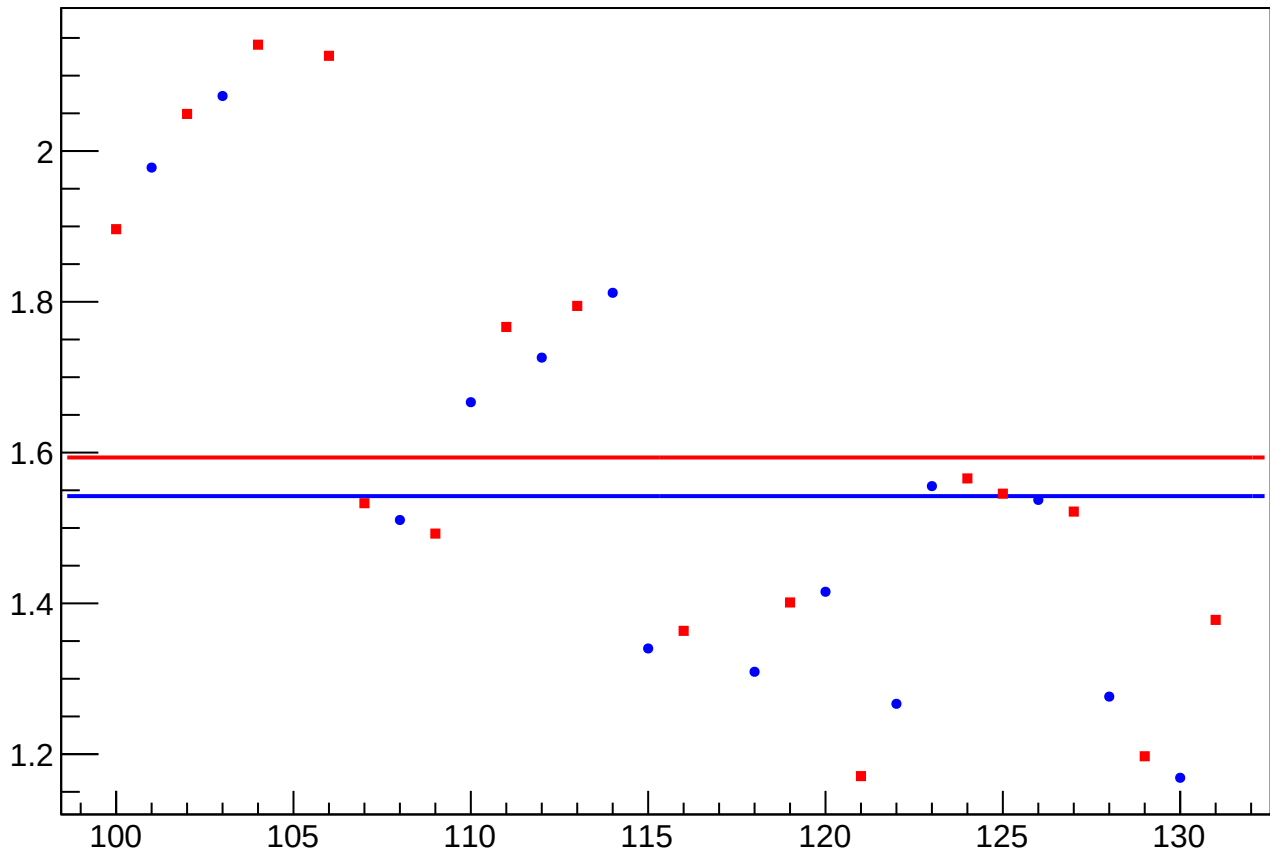
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 94820.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aX\_mean vs Slug



Right In: 1.542+/-0.000  $\chi^2/\text{NDF}$ : 2826034114.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.594+/-0.000  $\chi^2/\text{NDF}$ : 3305707956.9/15

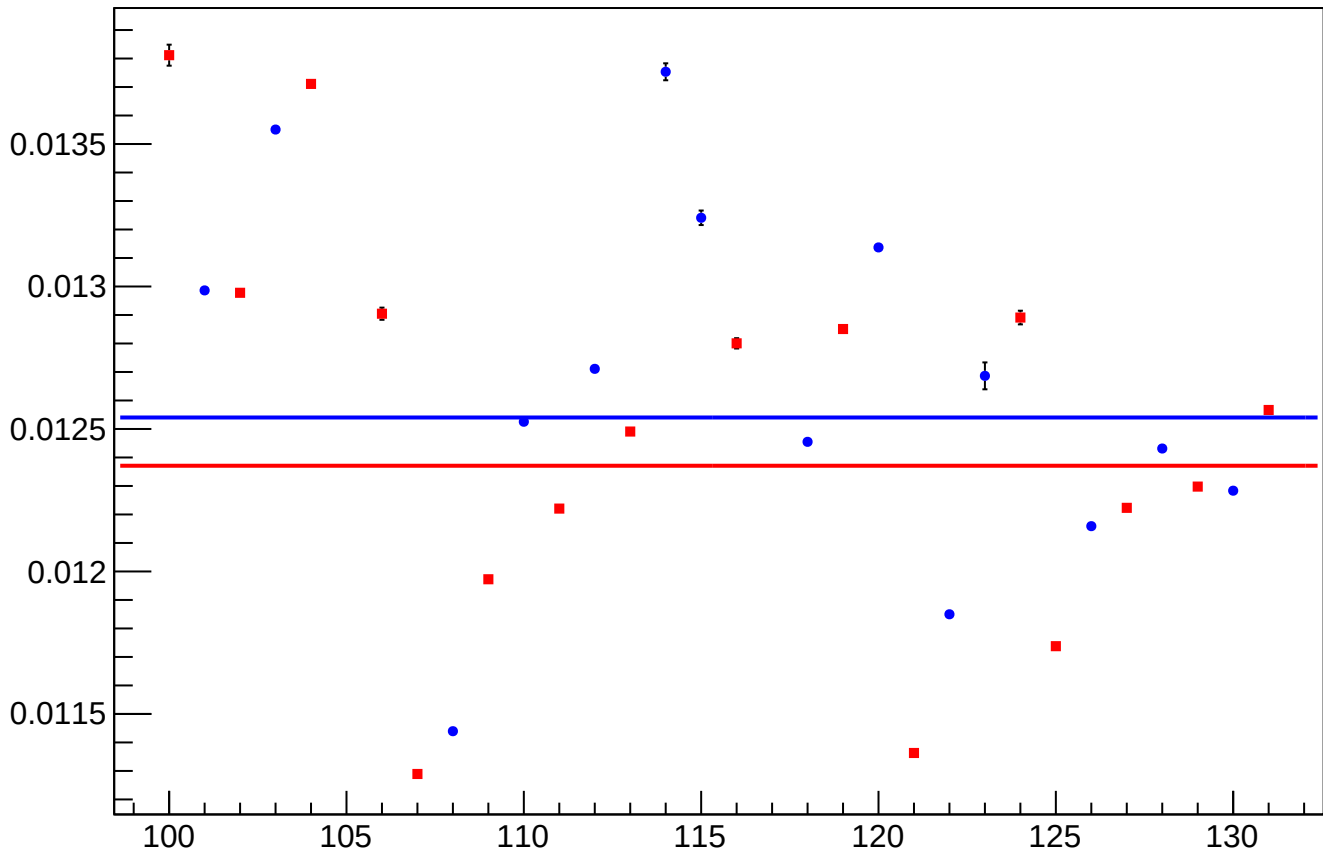
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.570+/-0.000  $\chi^2/\text{NDF}$ : 6177795269.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i02aX\_rms vs Slug



Right In: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 22490.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 32196.4/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

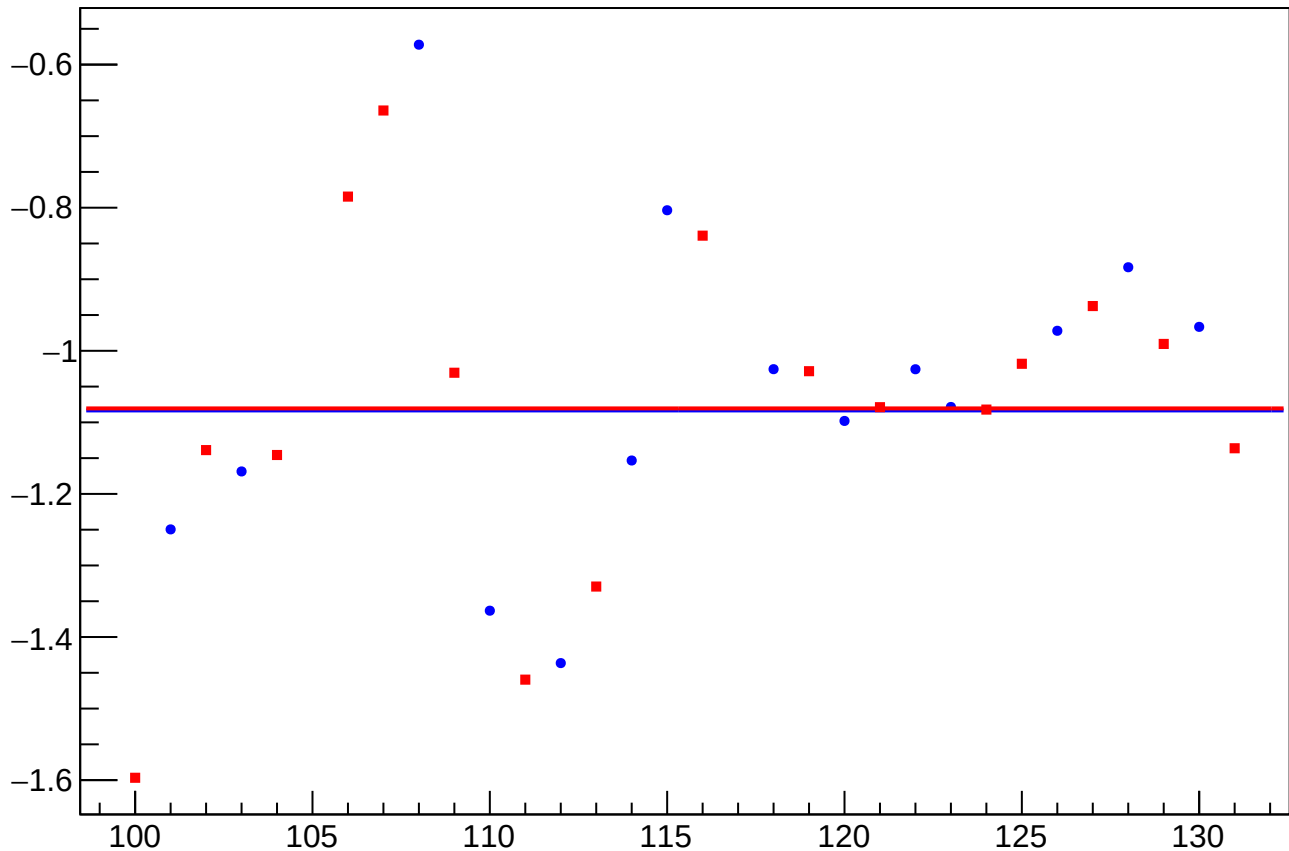
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 55693.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i02aY\_mean vs Slug



Right In: -1.083+/-0.000  $\chi^2$ /NDF: 2783027345.5/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: -1.081+/-0.000  $\chi^2$ /NDF: 2271713960.1/15

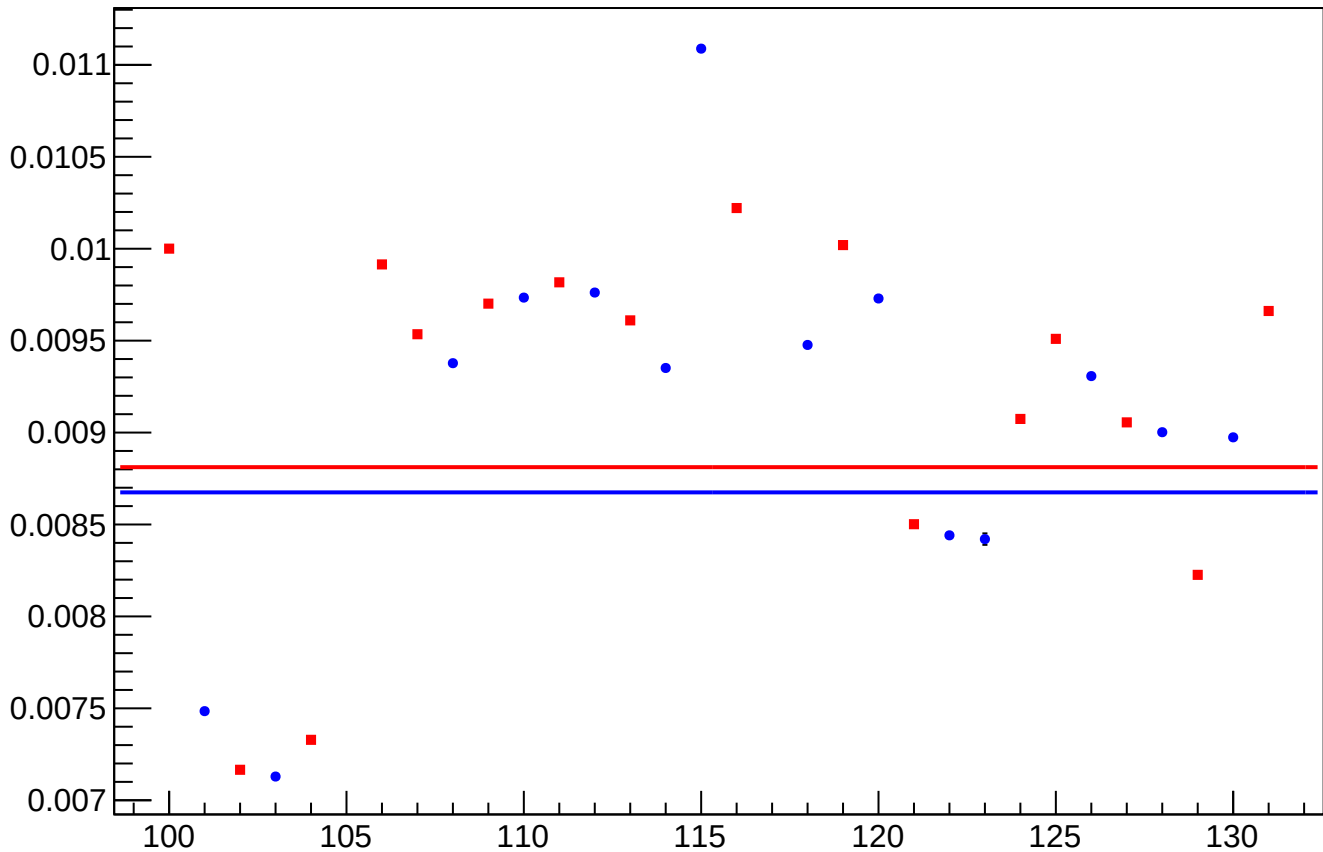
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: -1.082+/-0.000  $\chi^2$ /NDF: 5055011058.8/2

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0i02aY\_rms vs Slug



Right In: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 136814.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 163336.4/15

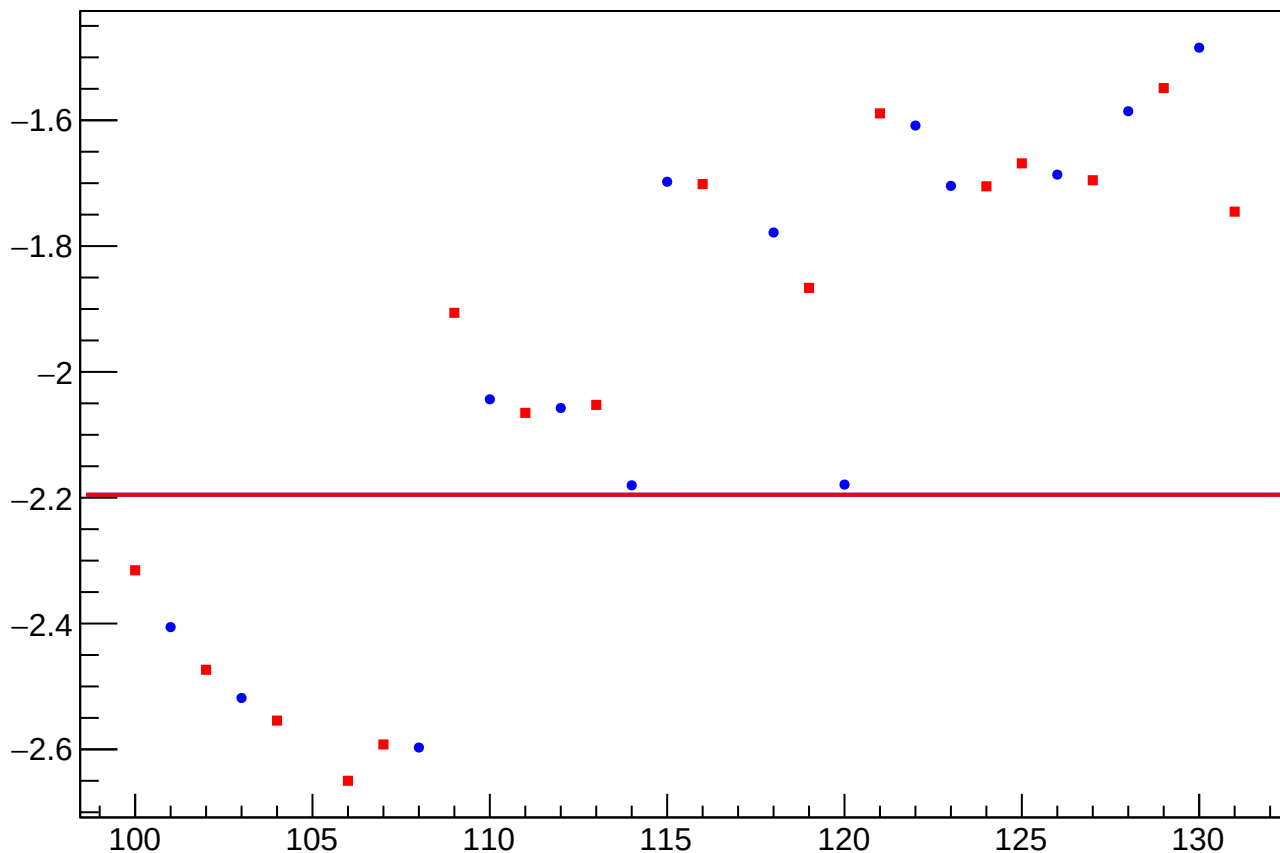
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 301443.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05X\_mean vs Slug



Right In: -2.195+/-0.000  $\chi^2/\text{NDF}$ : 11886326273.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.195+/-0.000  $\chi^2/\text{NDF}$ : 13187390533.6/15

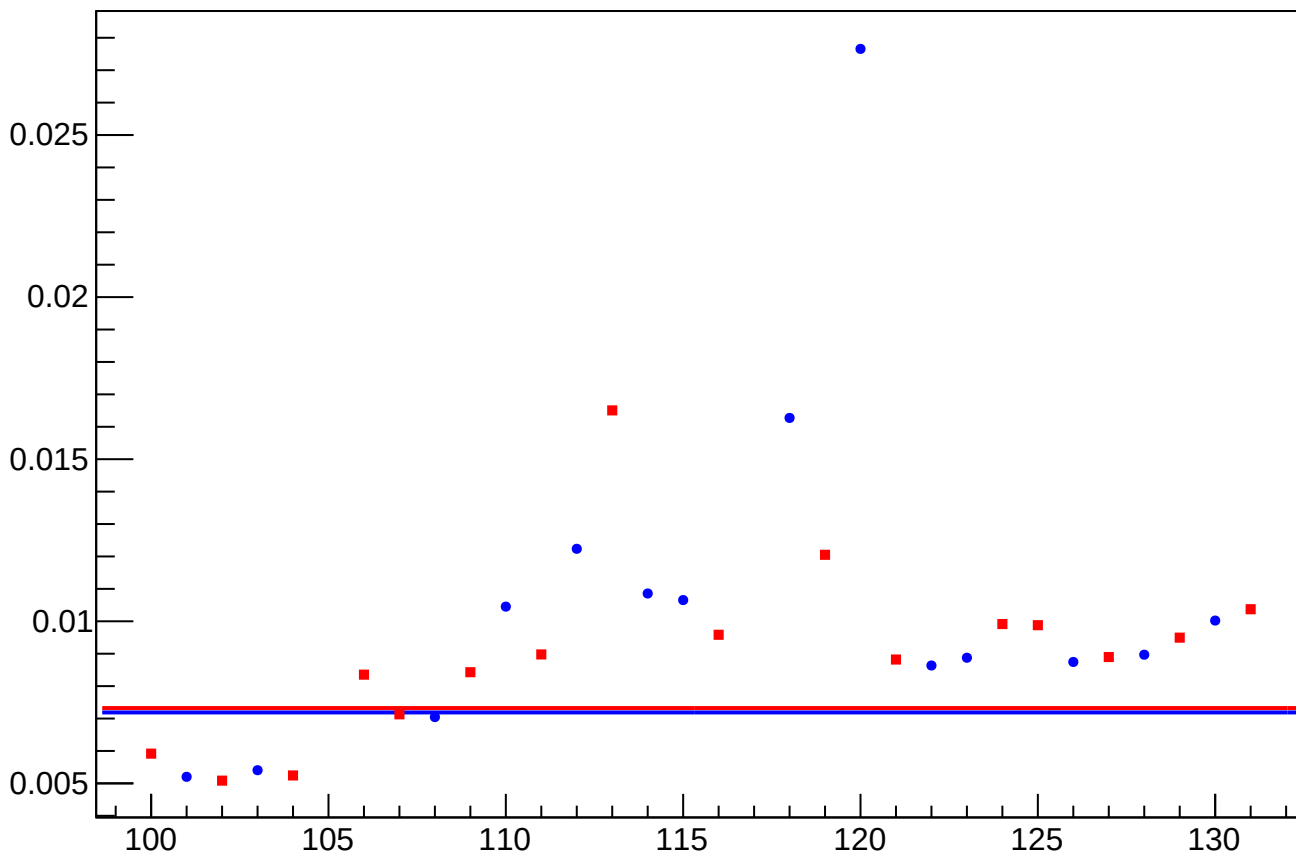
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.195+/-0.000  $\chi^2/\text{NDF}$ : 25073716898.7/1

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1079254.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 884122.5/15

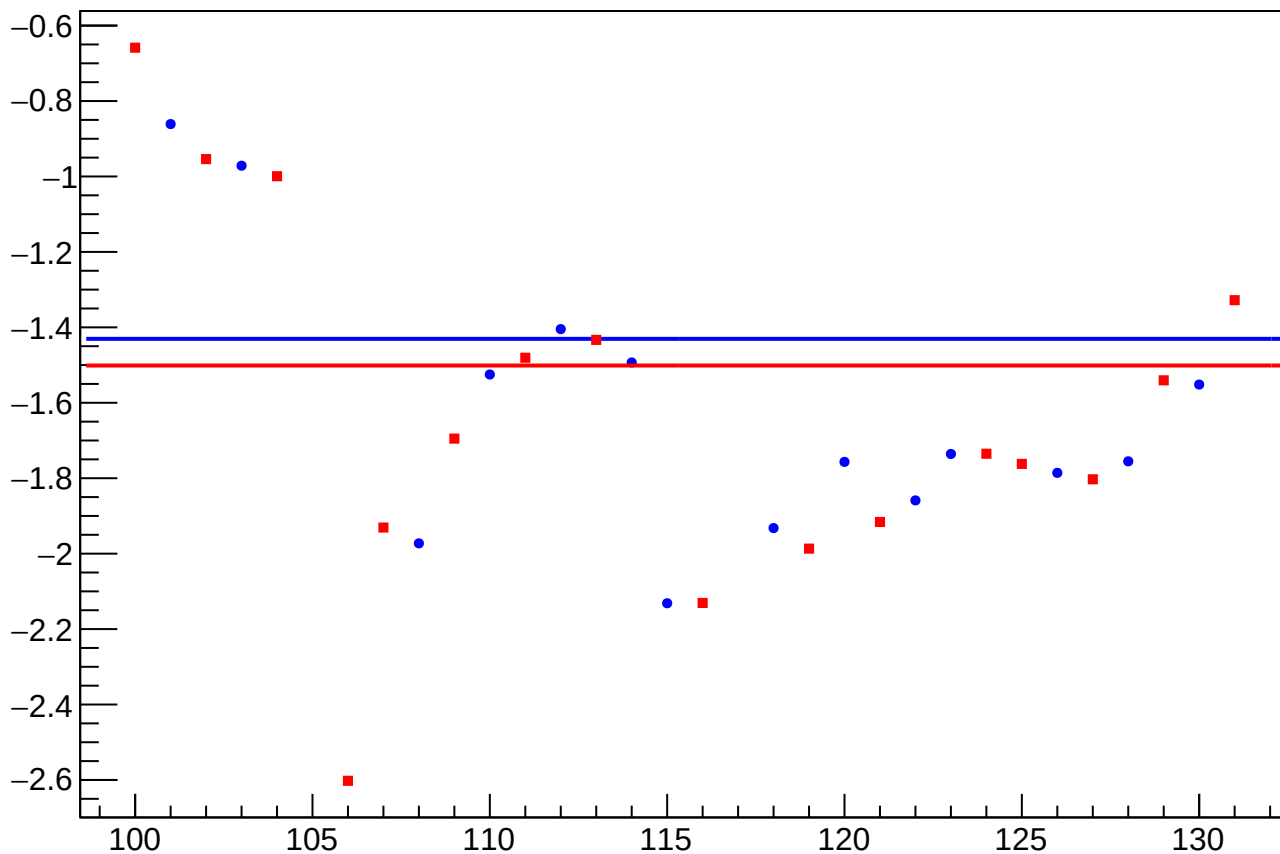
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 1964830.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05Y\_mean vs Slug



Right In: -1.430+/-0.000  $\chi^2/\text{NDF}$ : 18377675343.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.501+/-0.000  $\chi^2/\text{NDF}$ : 24987599379.5/15

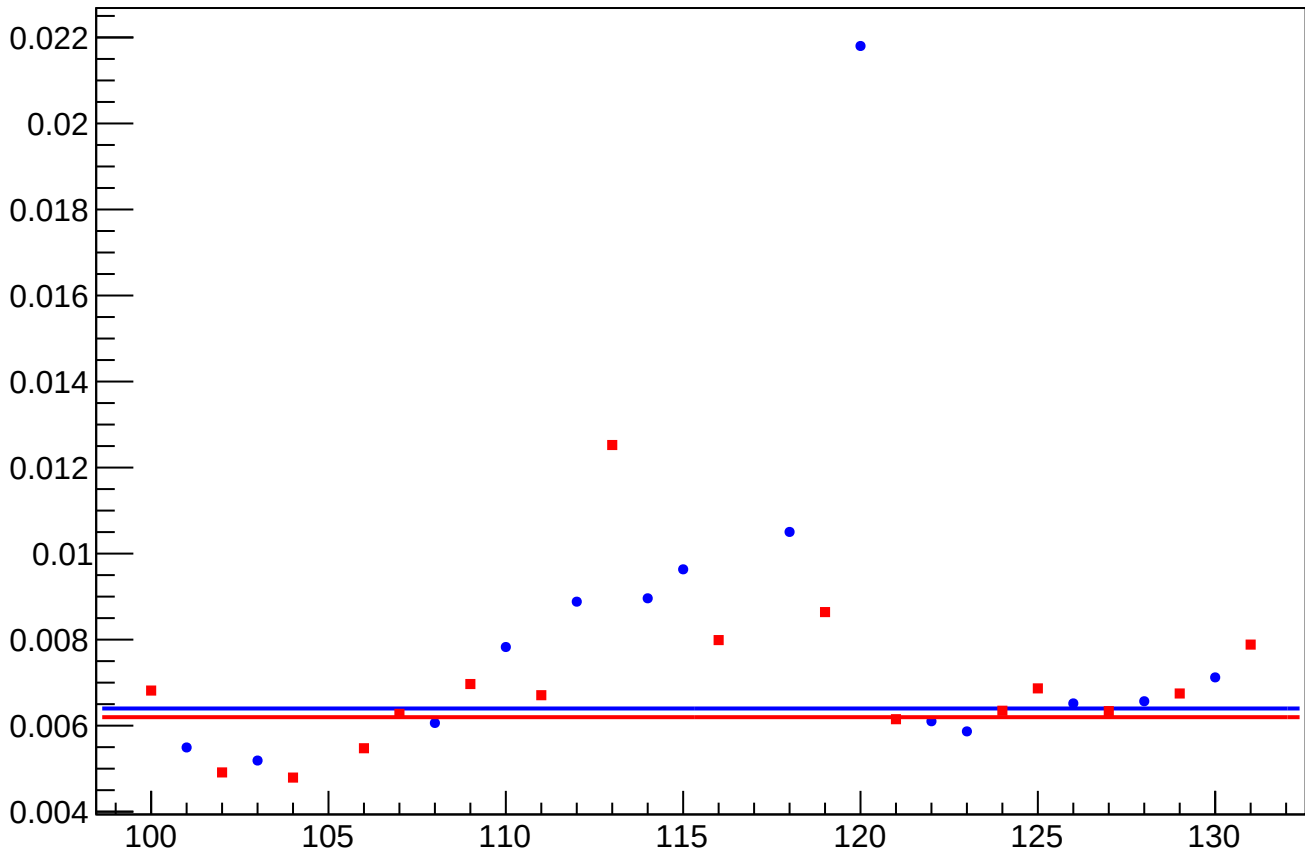
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.470+/-0.000  $\chi^2/\text{NDF}$ : 43646005337.9

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i05Y\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 530073.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 398884.3/15

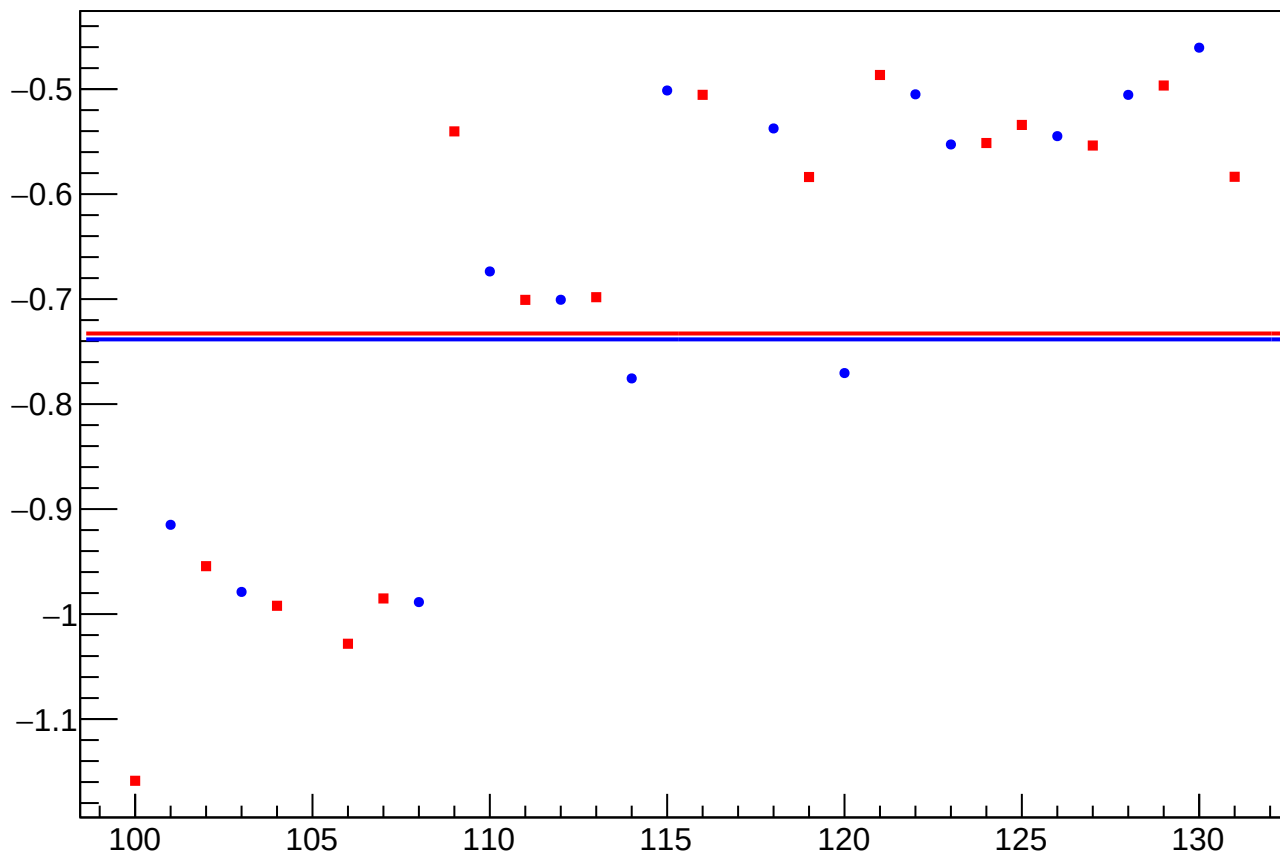
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 933552.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07X\_mean vs Slug



Right In: -0.738+/-0.000  $\chi^2/\text{NDF}$ : 7283367585.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.733+/-0.000  $\chi^2/\text{NDF}$ : 8784573682.8/15

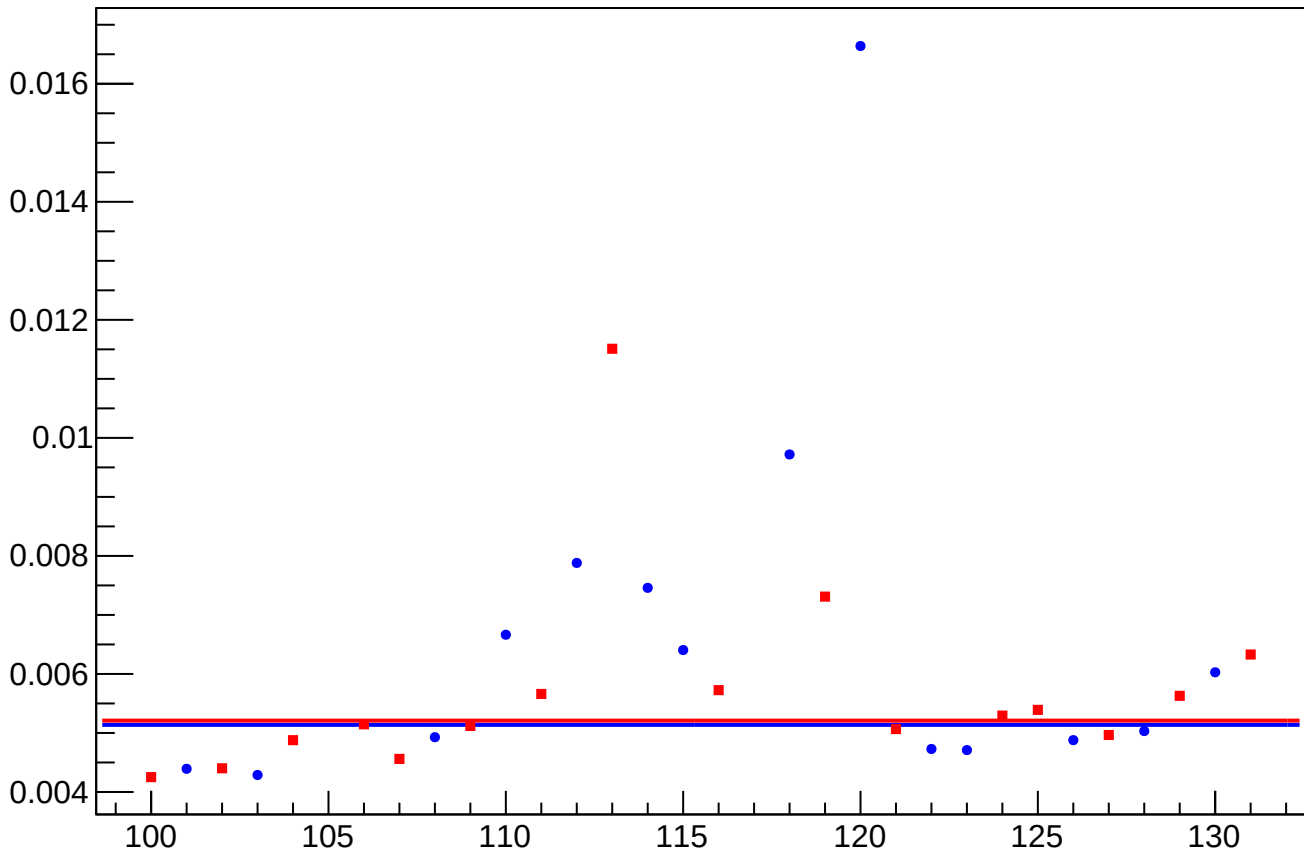
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.735+/-0.000  $\chi^2/\text{NDF}$ : 16070578434.1/16

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07X\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 607309.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 316269.9/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

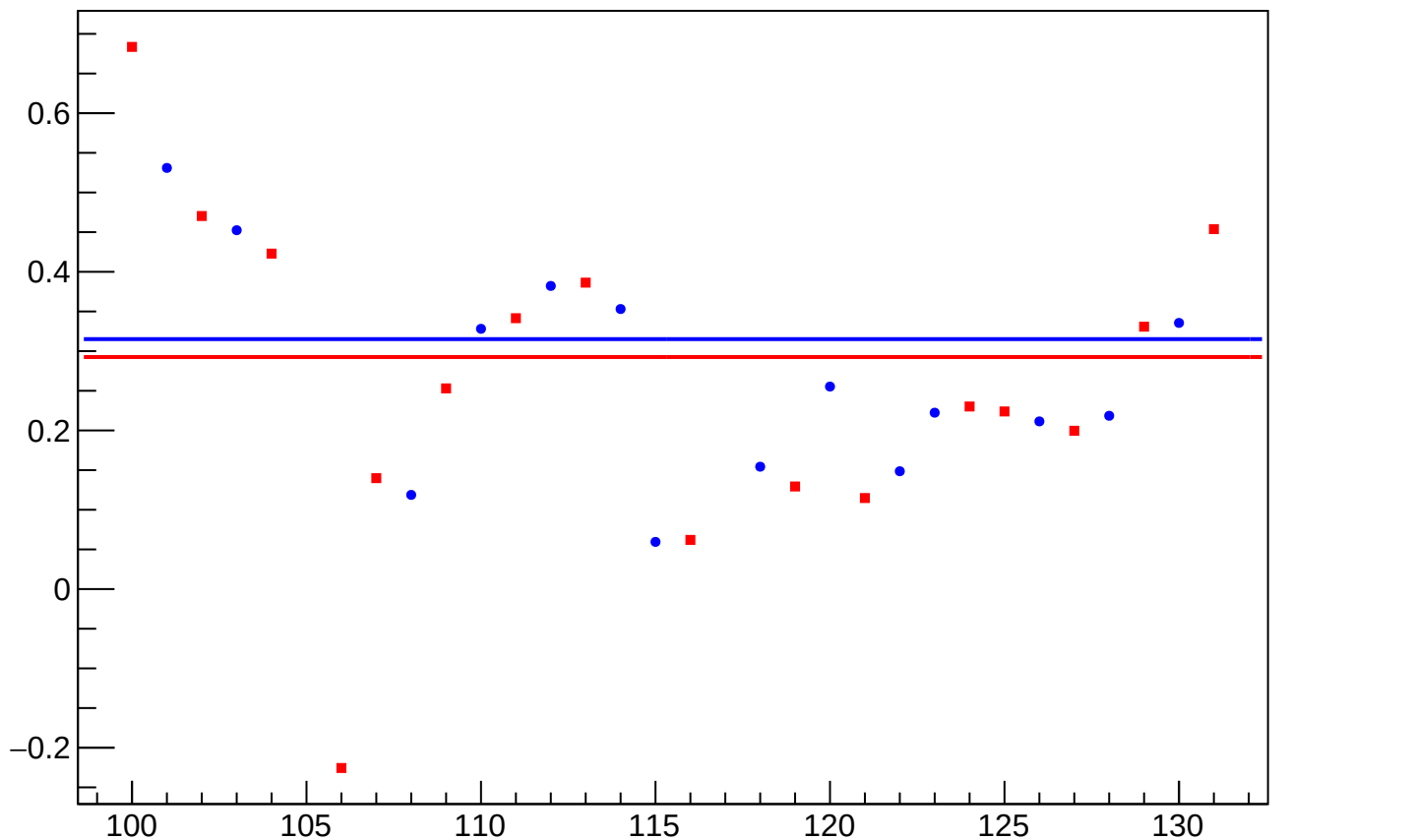
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 924443.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i07Y\_mean vs Slug



Right In: 0.315+/-0.000  $\chi^2/\text{NDF}$ : 5354183157.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.293+/-0.000  $\chi^2/\text{NDF}$ : 7749963049.8/15

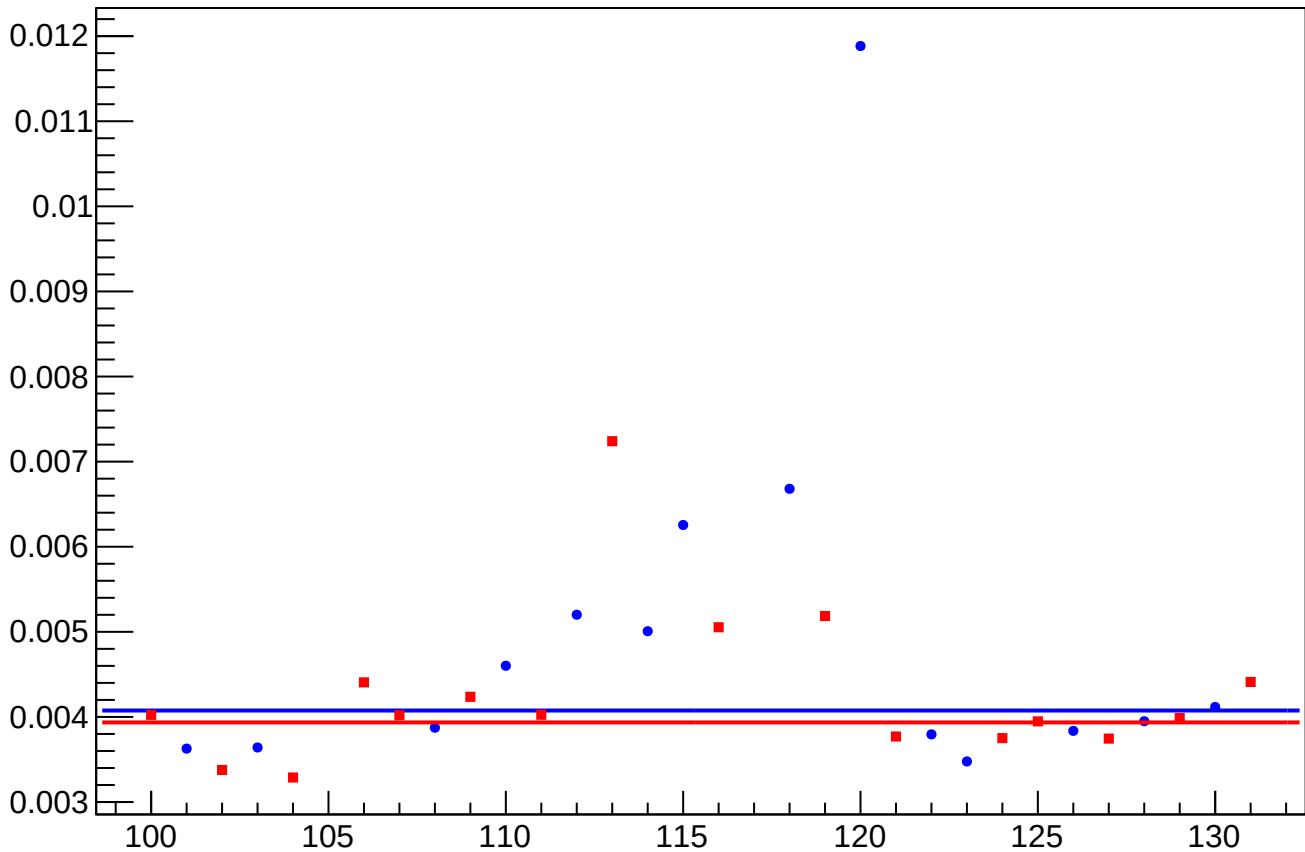
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.303+/-0.000  $\chi^2/\text{NDF}$ : 13177916804.9/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i07Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 432354.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 246144.5/15

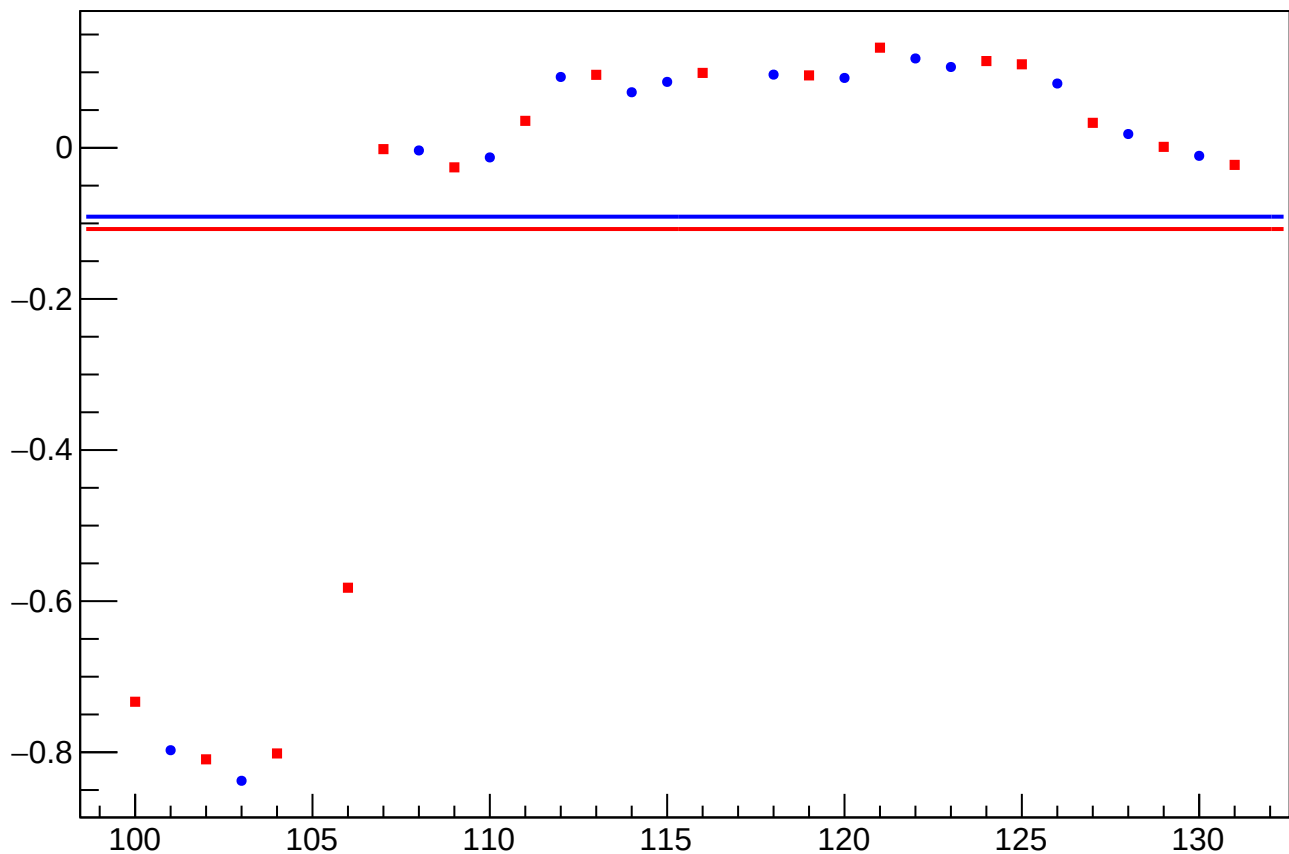
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 684158.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02X\_mean vs Slug



Right In: -0.091+/-0.000  $\chi^2/\text{NDF}$ : 4966987868.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.107+/-0.000  $\chi^2/\text{NDF}$ : 5538818023.0/15

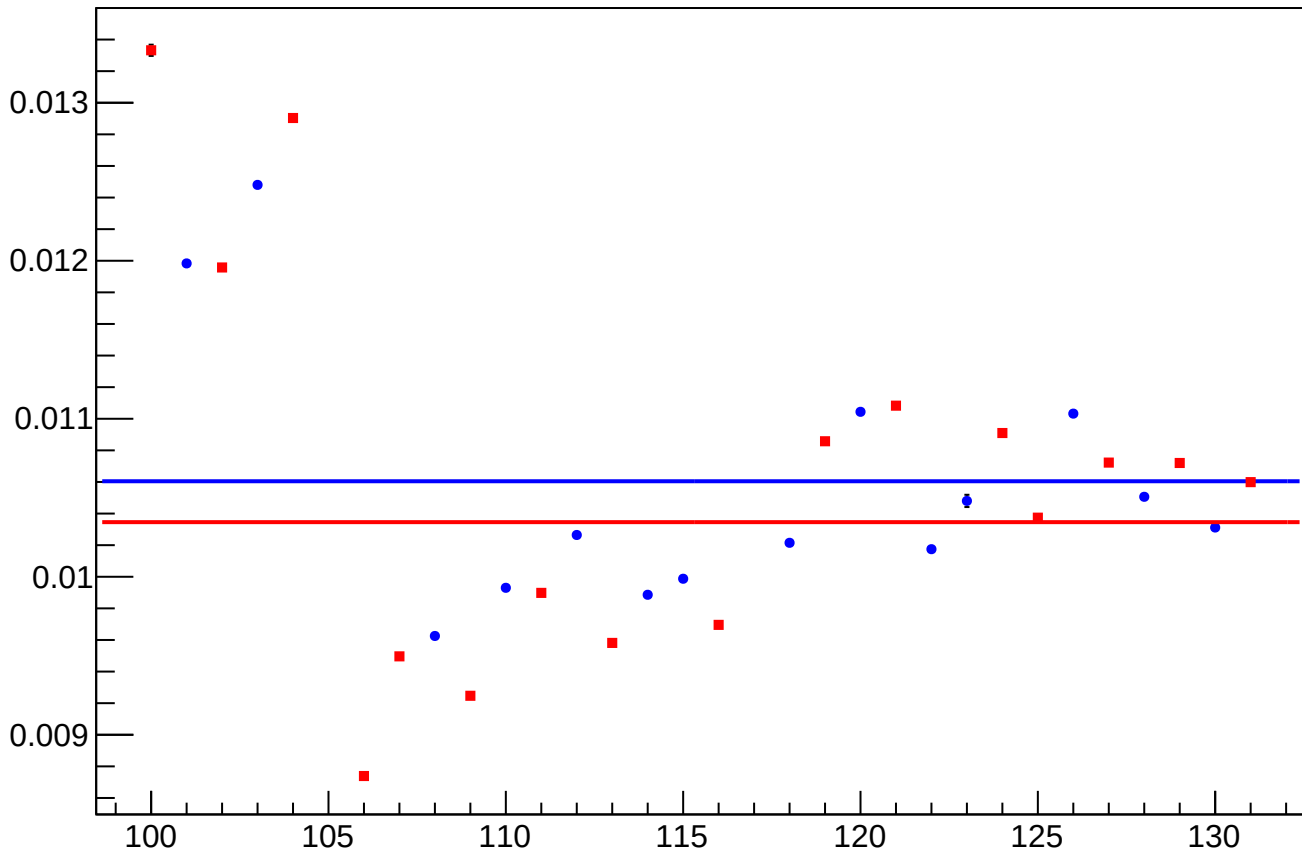
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.100+/-0.000  $\chi^2/\text{NDF}$ : 10512564585.3/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 61282.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 124723.1/15

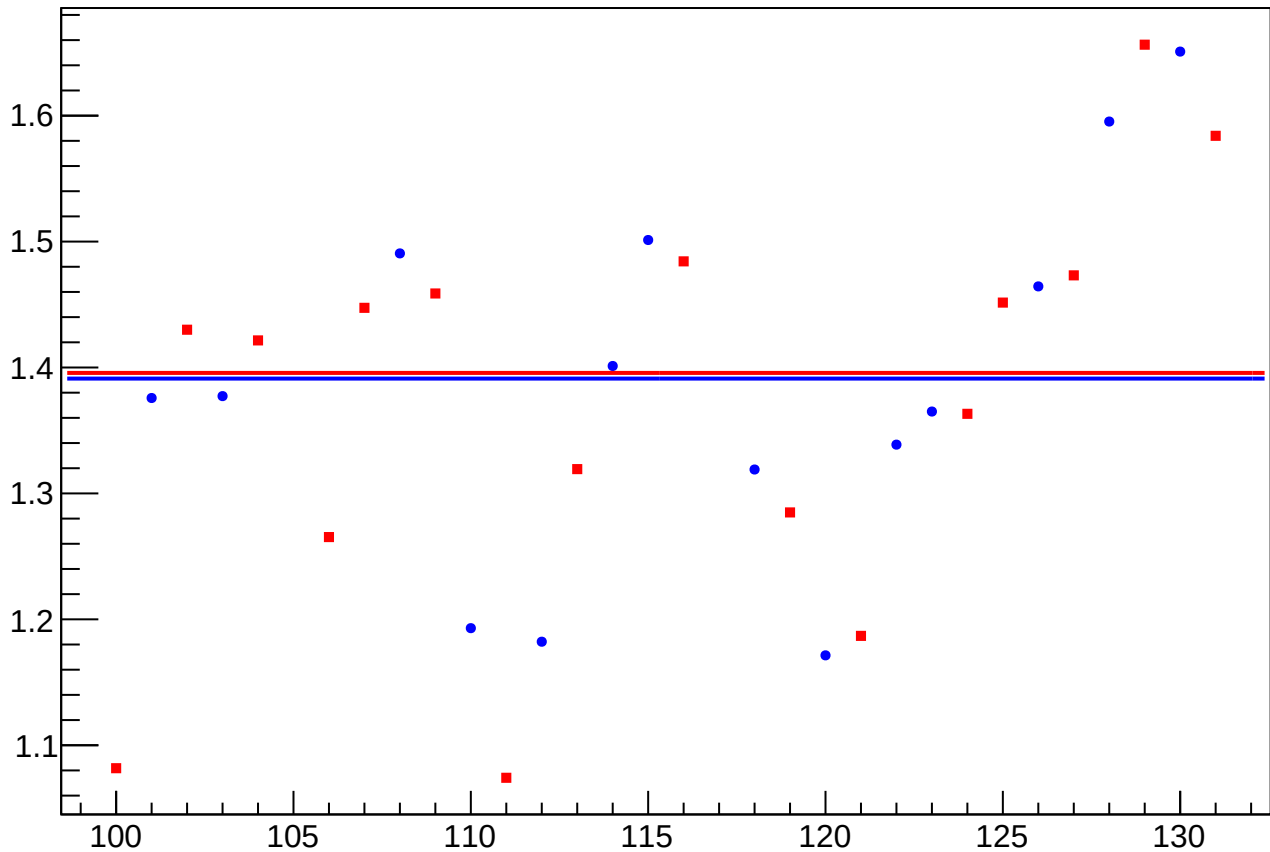
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 189388.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02Y\_mean vs Slug



Right In: 1.391+/-0.000  $\chi^2/\text{NDF}$ : 1922420692.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.396+/-0.000  $\chi^2/\text{NDF}$ : 2210378543.2/15

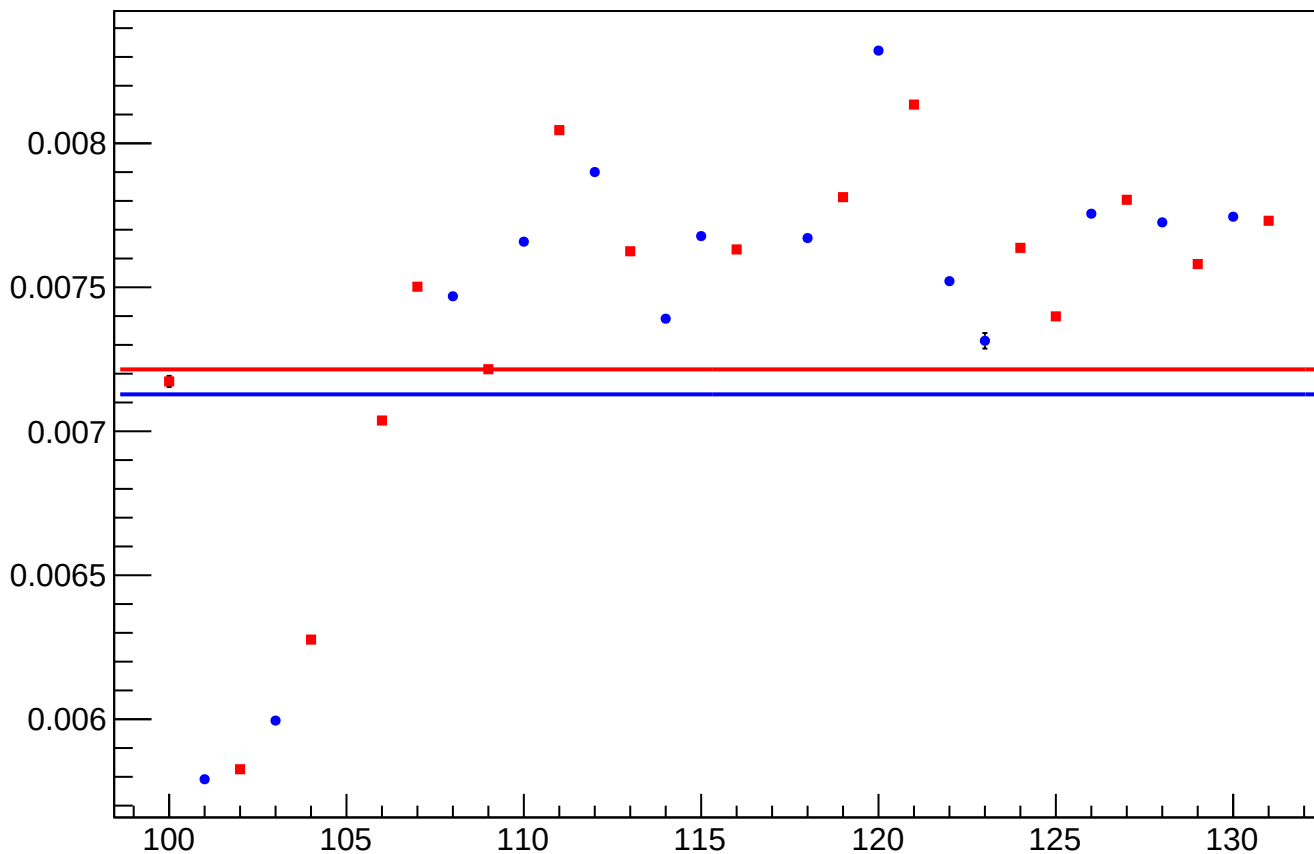
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.394+/-0.000  $\chi^2/\text{NDF}$ : 4133888499.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i02Y\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 155461.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 125034.1/15

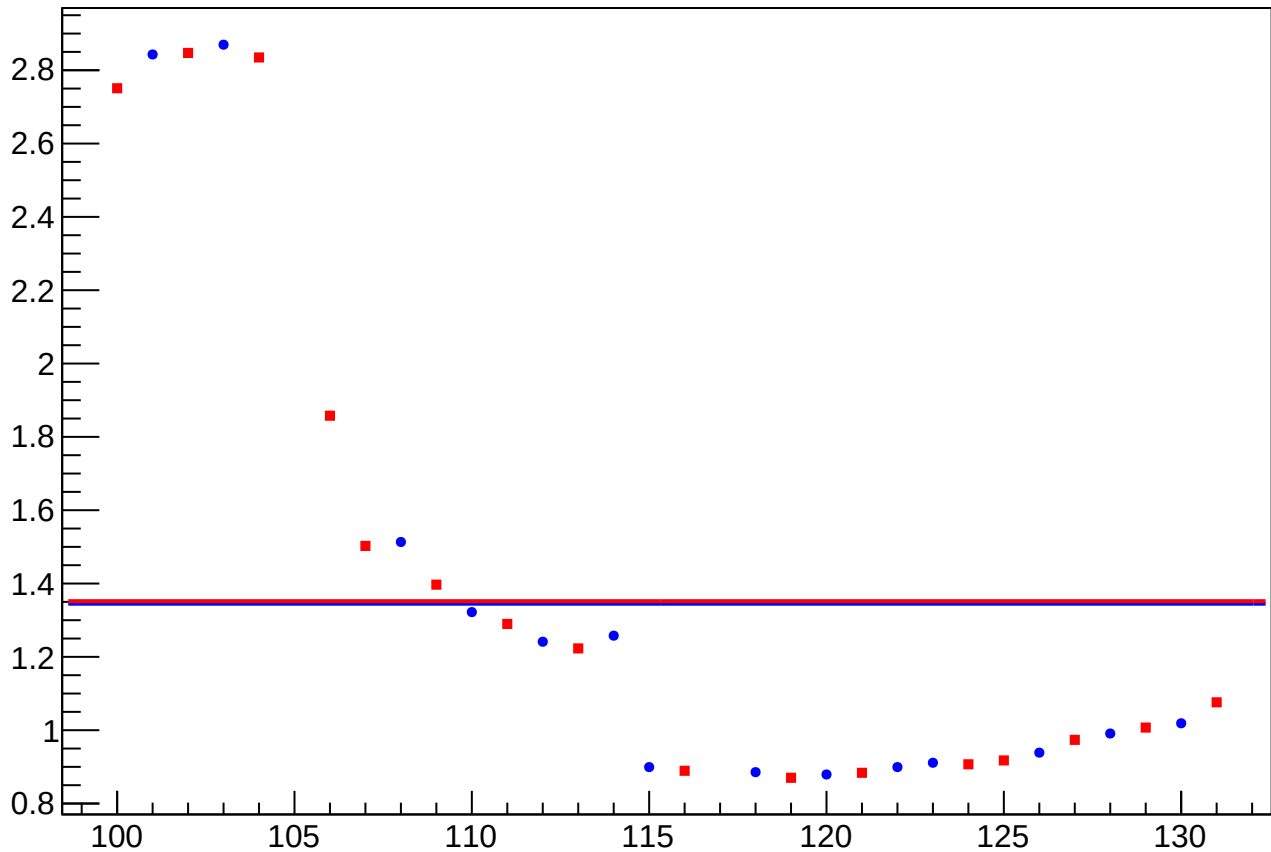
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 281303.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04X\_mean vs Slug



Right In: 1.345+/-0.000  $\chi^2/\text{NDF}$ : 50801590252.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.352+/-0.000  $\chi^2/\text{NDF}$ : 47813487866.6/15

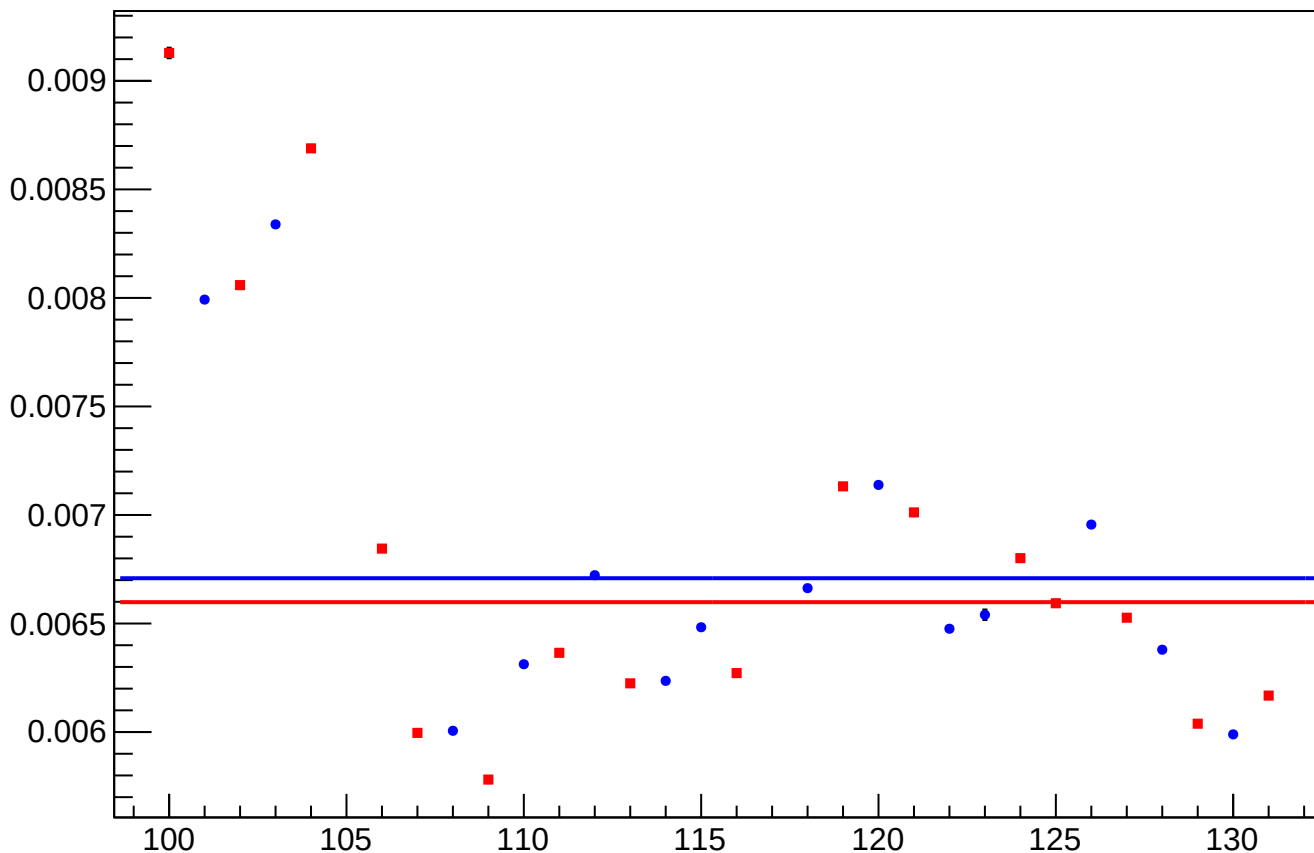
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.349+/-0.000  $\chi^2/\text{NDF}$ : 98618035275.5/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 110007.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 157268.5/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

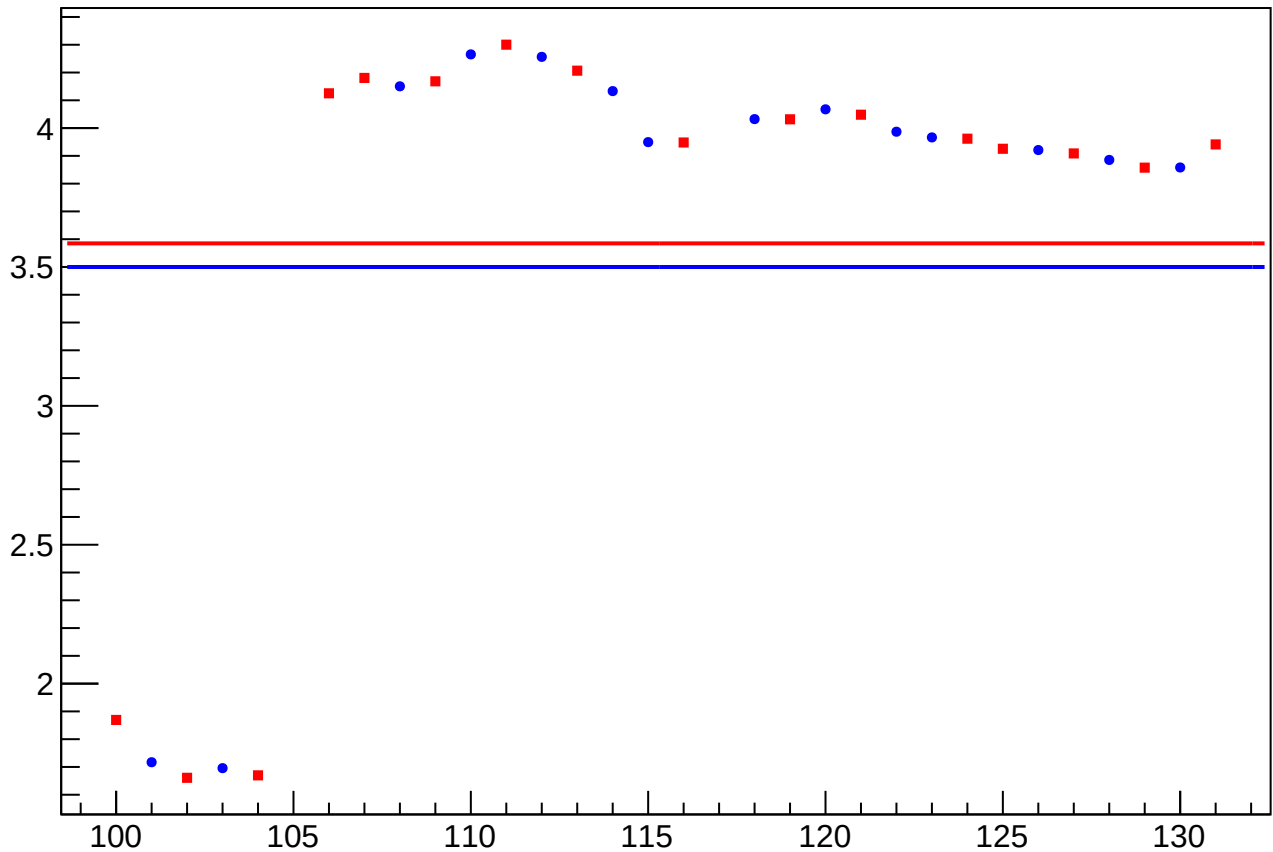
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 268793.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm1i04Y\_mean vs Slug



Right In: 3.500+/-0.000  $\chi^2/\text{NDF}$ : 175772004494.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.585+/-0.000  $\chi^2/\text{NDF}$ : 184320096298.1/15

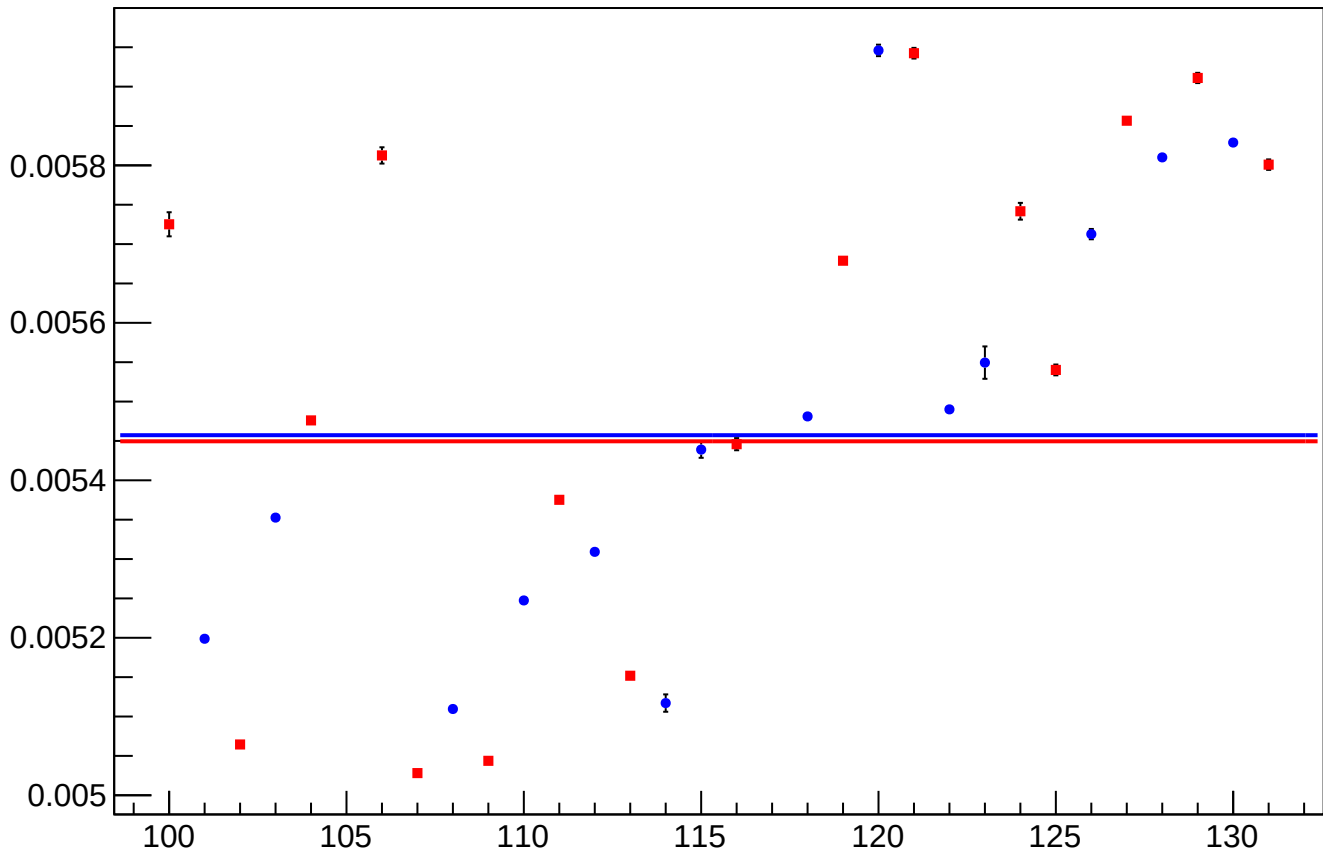
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.545+/-0.000  $\chi^2/\text{NDF}$ : 360763563559.6

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i04Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 23540.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 42650.1/15

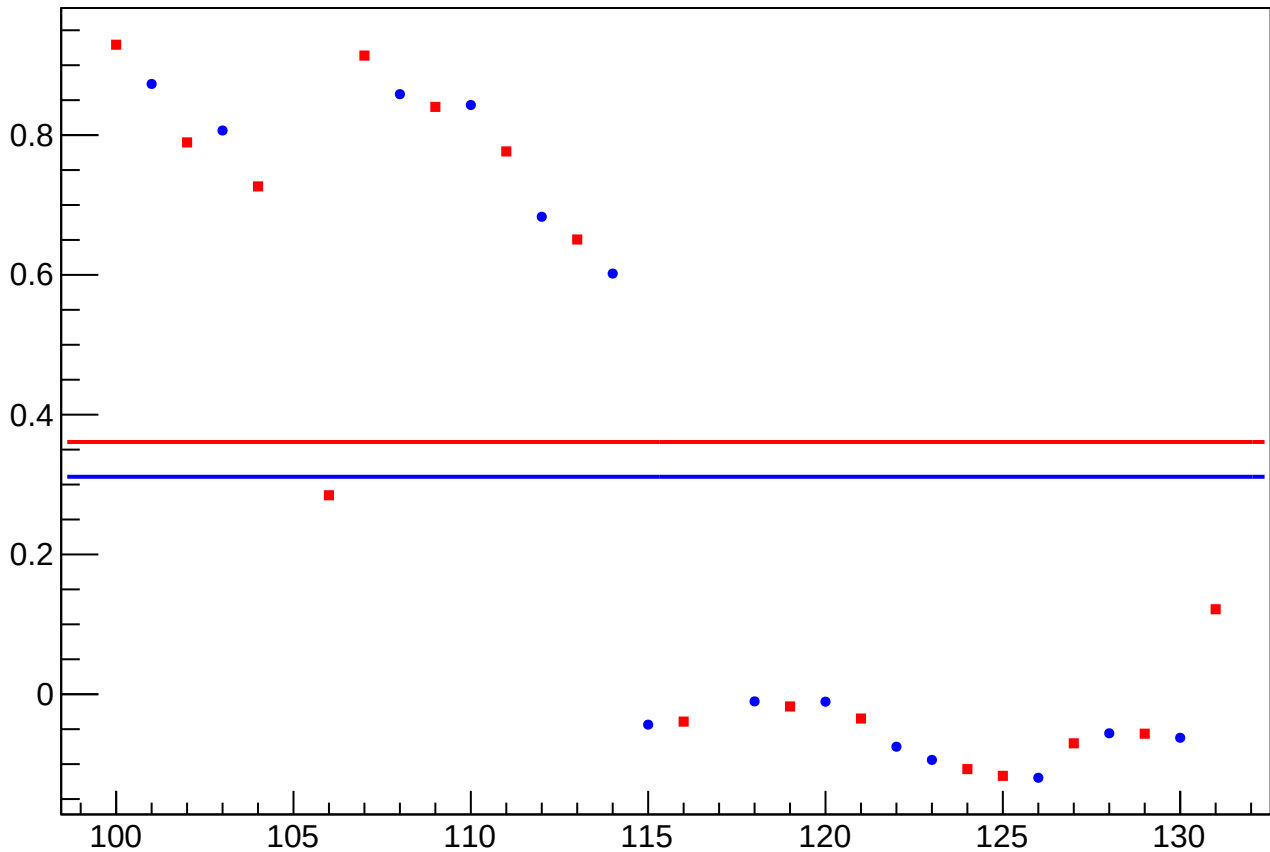
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 66201.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06X\_mean vs Slug



Right In: 0.311+/-0.000  $\chi^2/\text{NDF}$ : 4892996591.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.361+/-0.000  $\chi^2/\text{NDF}$ : 5001679756.6/15

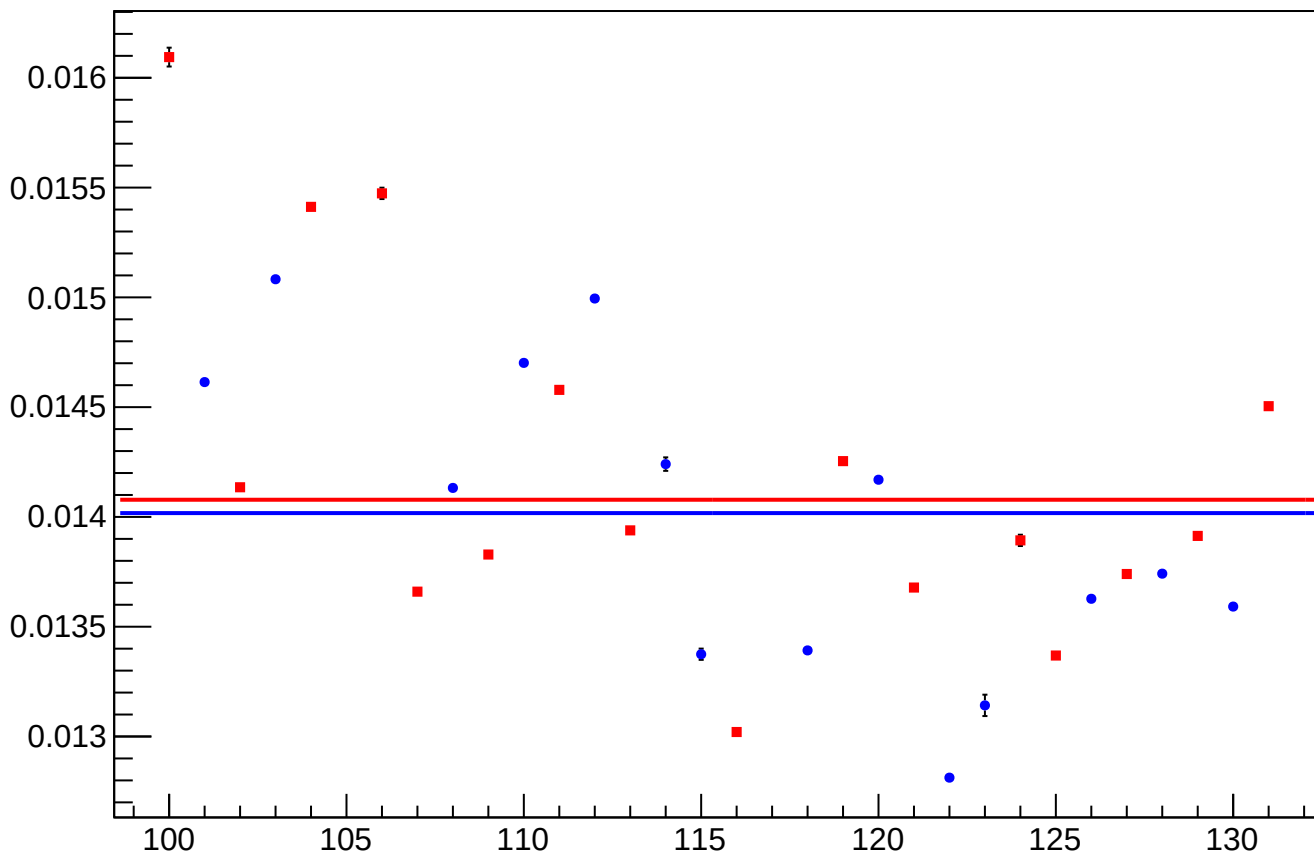
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.337+/-0.000  $\chi^2/\text{NDF}$ : 9929359514.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06X\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 25522.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 21837.2/15

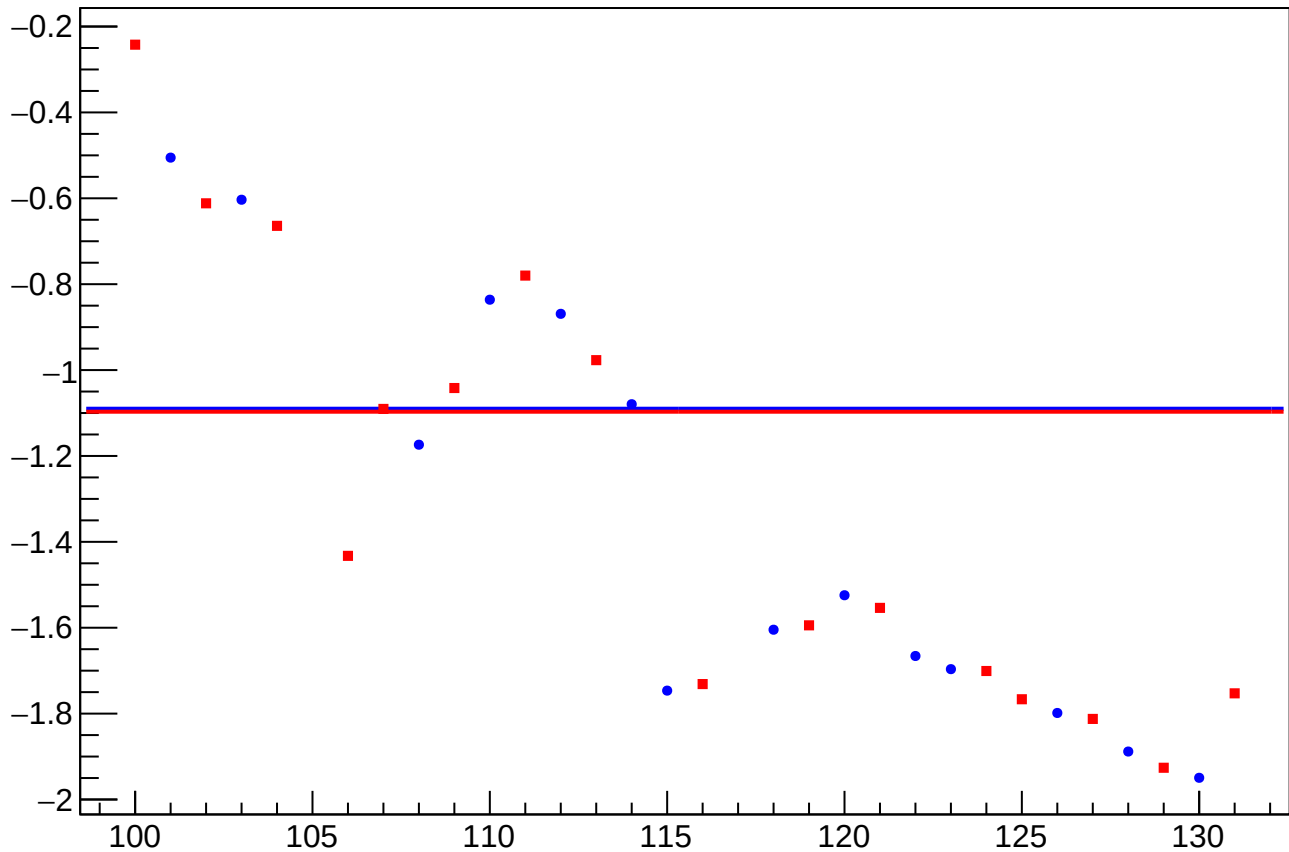
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 47463.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06Y\_mean vs Slug



Right In: -1.090+/-0.000  $\chi^2/\text{NDF}$ : 49869393851.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -1.097+/-0.000  $\chi^2/\text{NDF}$ : 43589485254.9/15

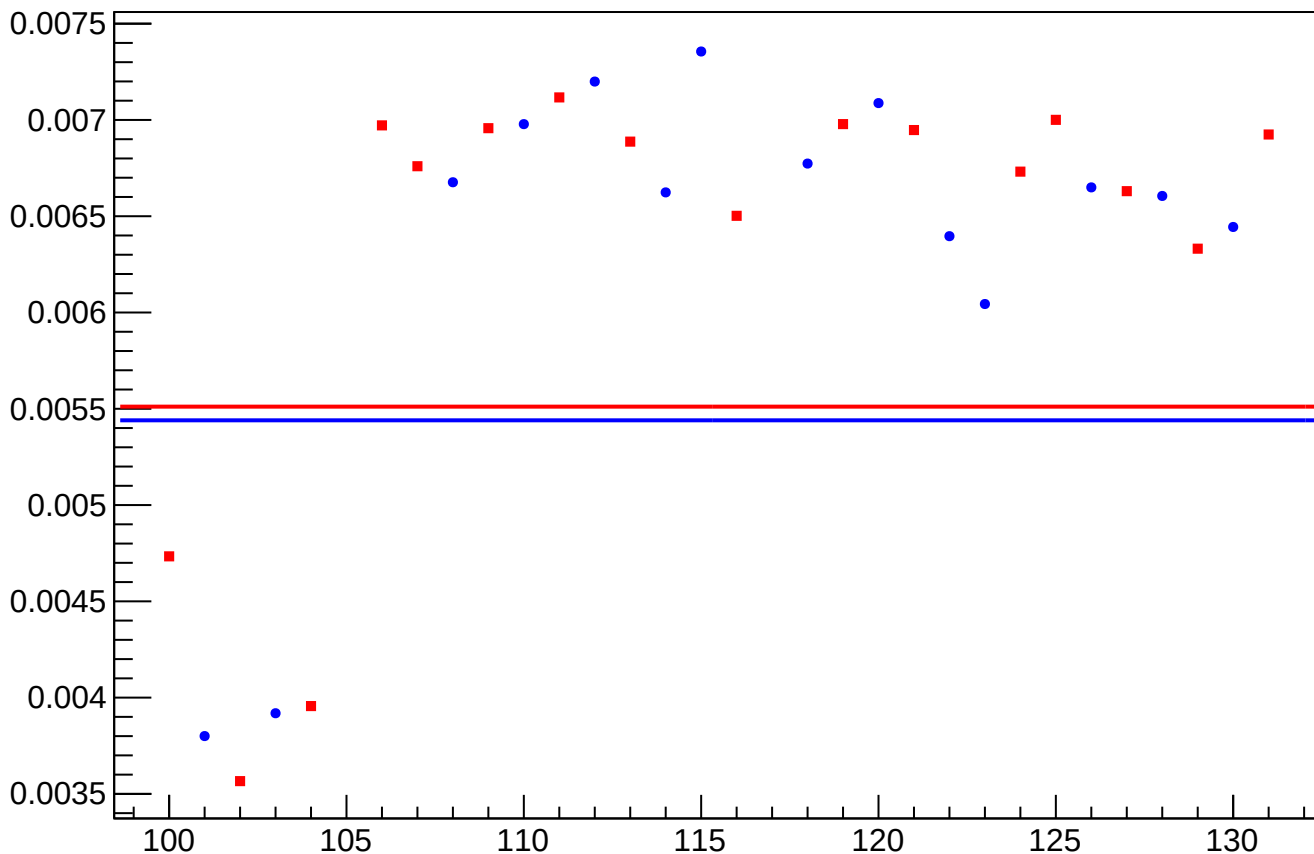
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.094+/-0.000  $\chi^2/\text{NDF}$ : 93462823490.6/

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm1i06Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 653068.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 792200.1/15

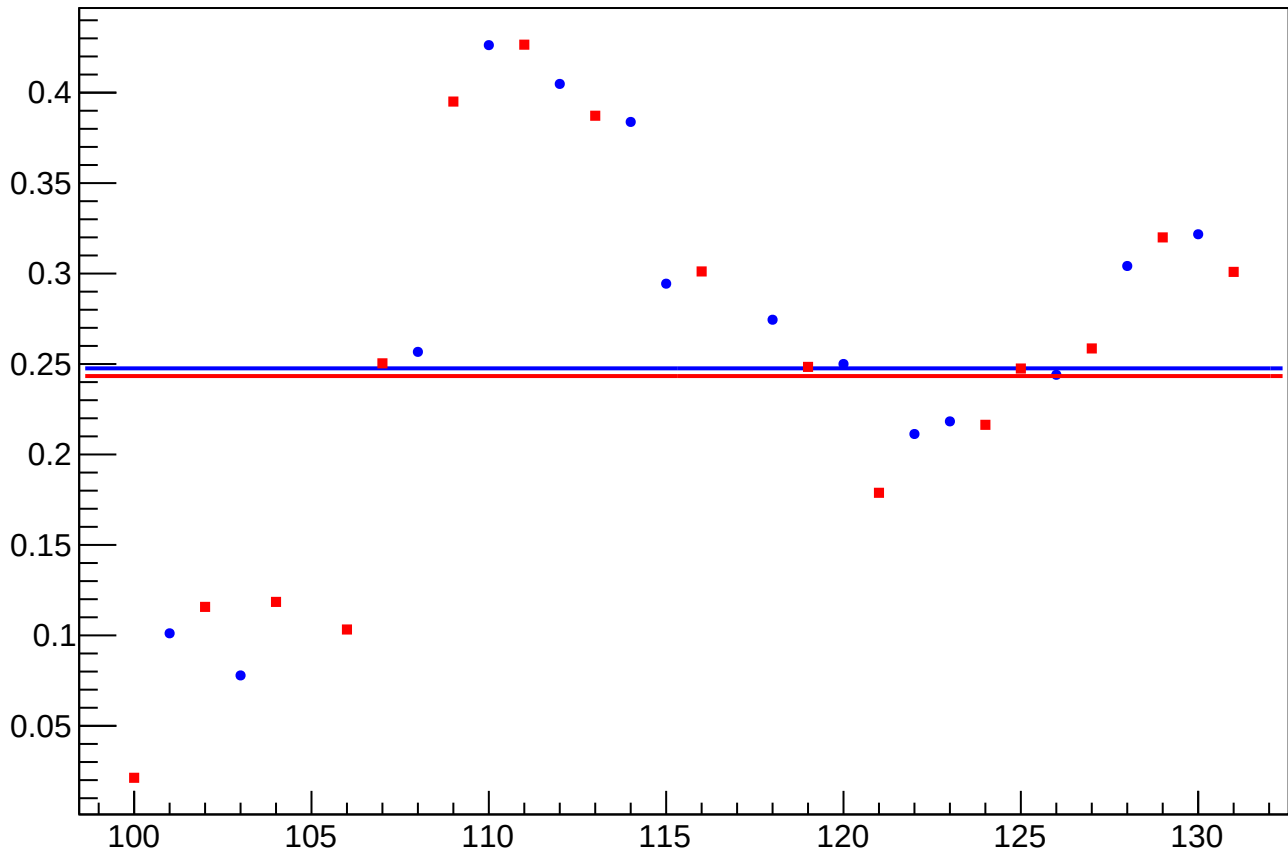
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1446090.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01X\_mean vs Slug



Right In: 0.248+/-0.000  $\chi^2/\text{NDF}$ : 20161060059.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.243+/-0.000  $\chi^2/\text{NDF}$ : 25361463222.1/15

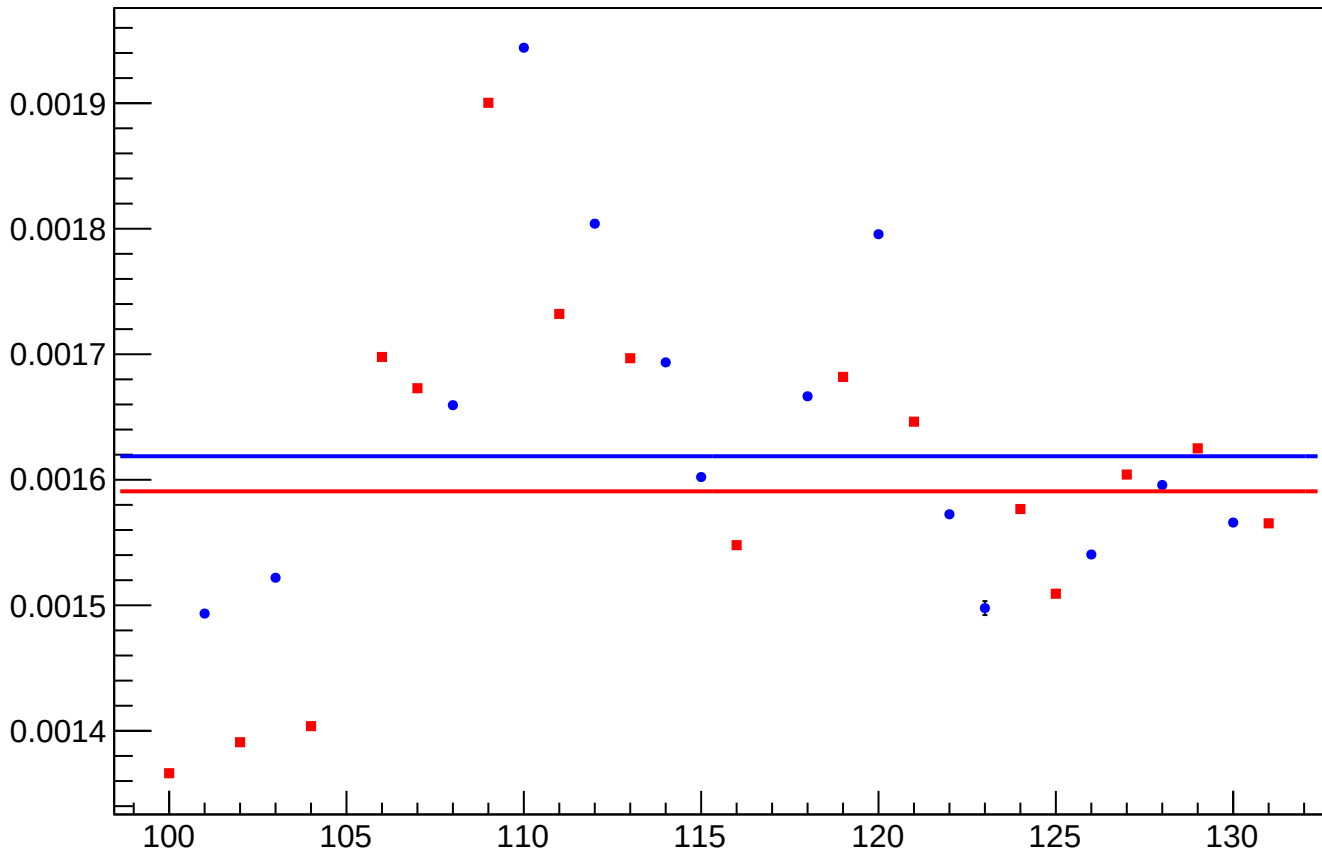
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.245+/-0.000  $\chi^2/\text{NDF}$ : 45541487823.6/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01X\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 50876.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 88247.0/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

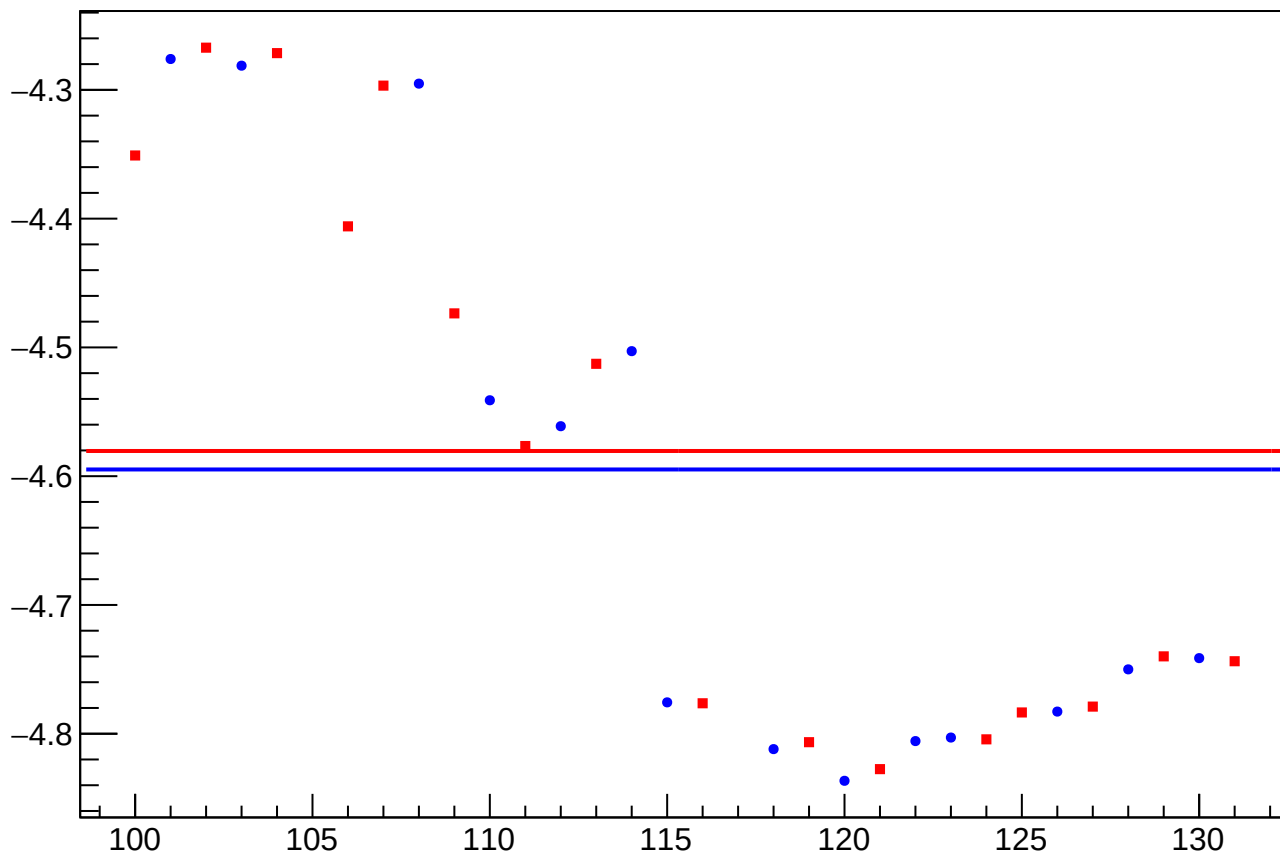
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 140751.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm2i01Y\_mean vs Slug



Right In: -4.595+/-0.000  $\chi^2/\text{NDF}$ : 73466988355.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -4.580+/-0.000  $\chi^2/\text{NDF}$ : 73117378930.0/15

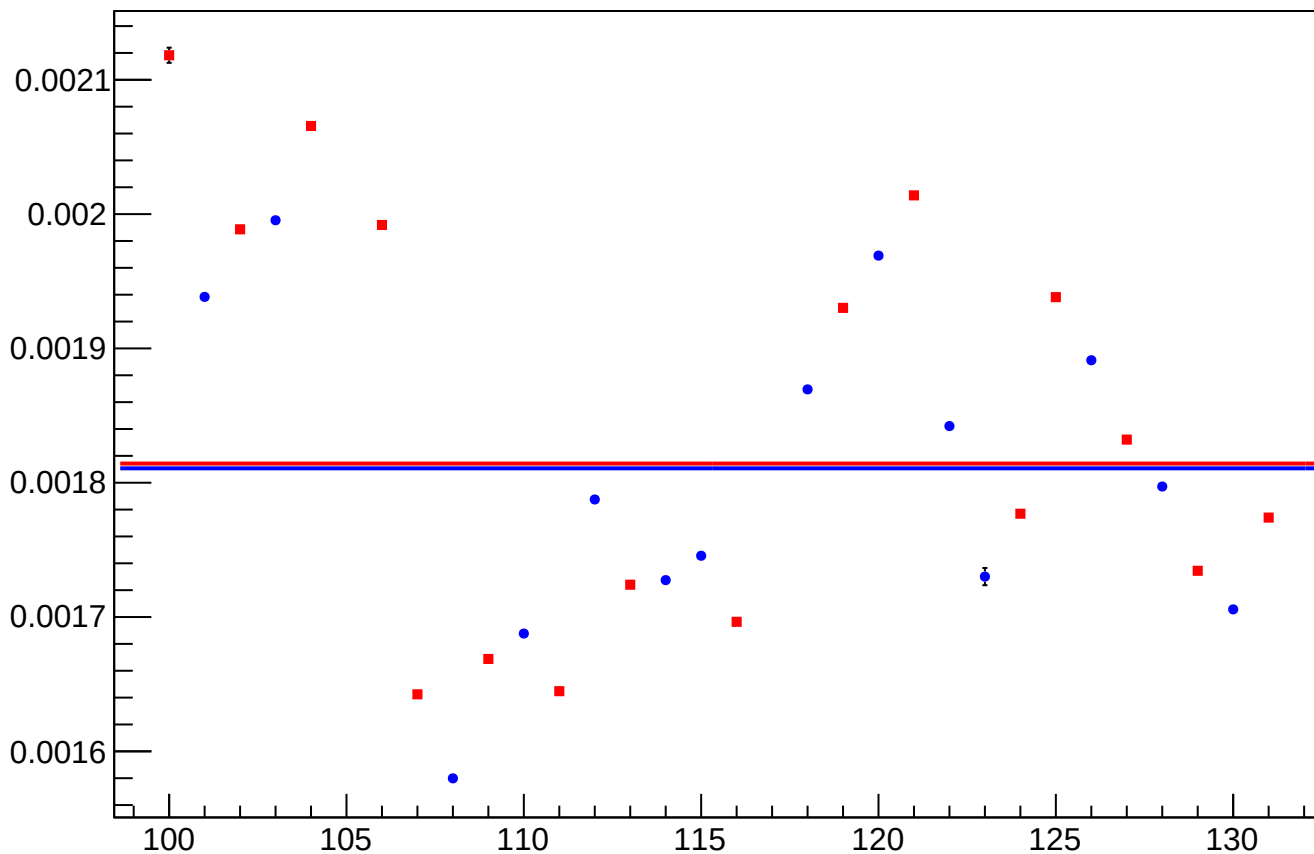
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -4.587+/-0.000  $\chi^2/\text{NDF}$ : 146755006900.5

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i01Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 45953.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 74548.1/15

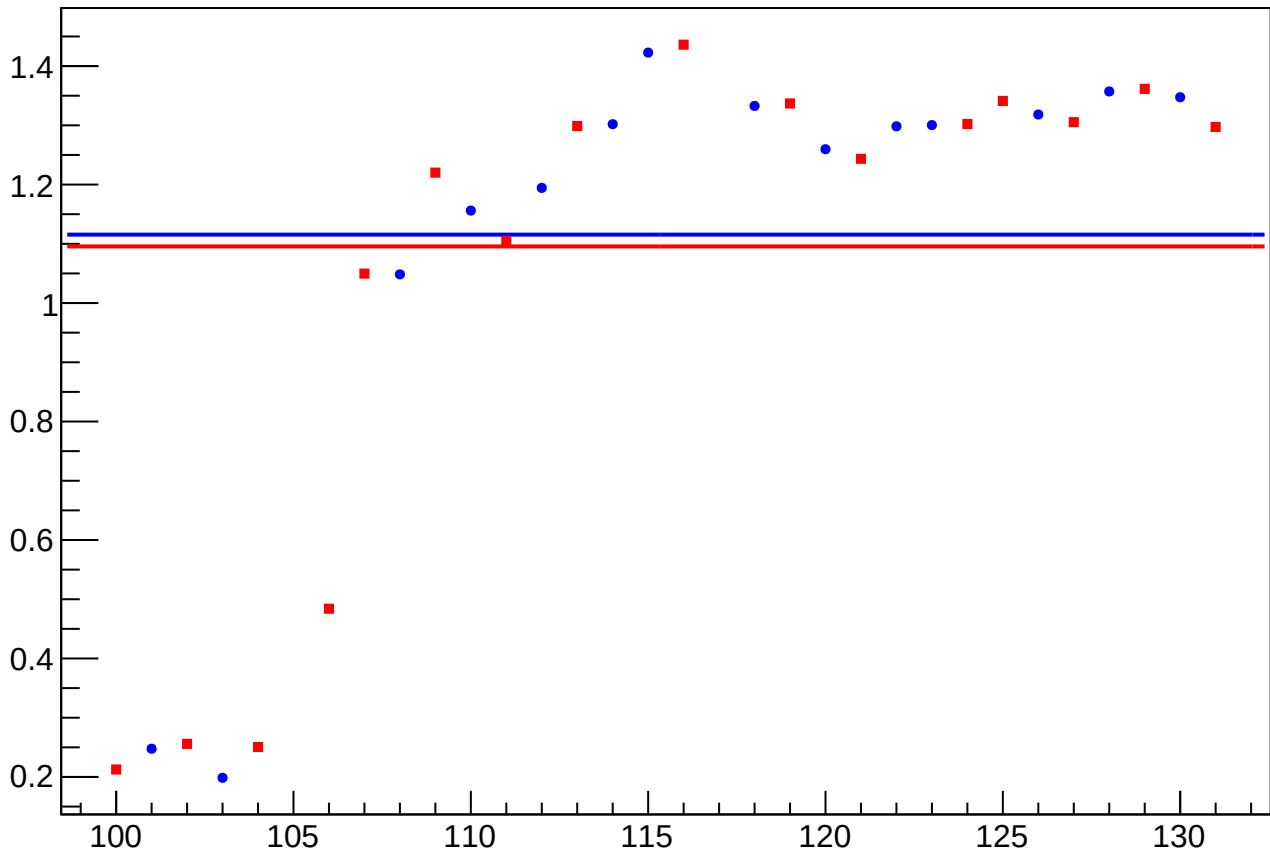
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 120522.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02X\_mean vs Slug



Right In: 1.115+/-0.000  $\chi^2/\text{NDF}$ : 14465872941.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.096+/-0.000  $\chi^2/\text{NDF}$ : 16677274584.1/15

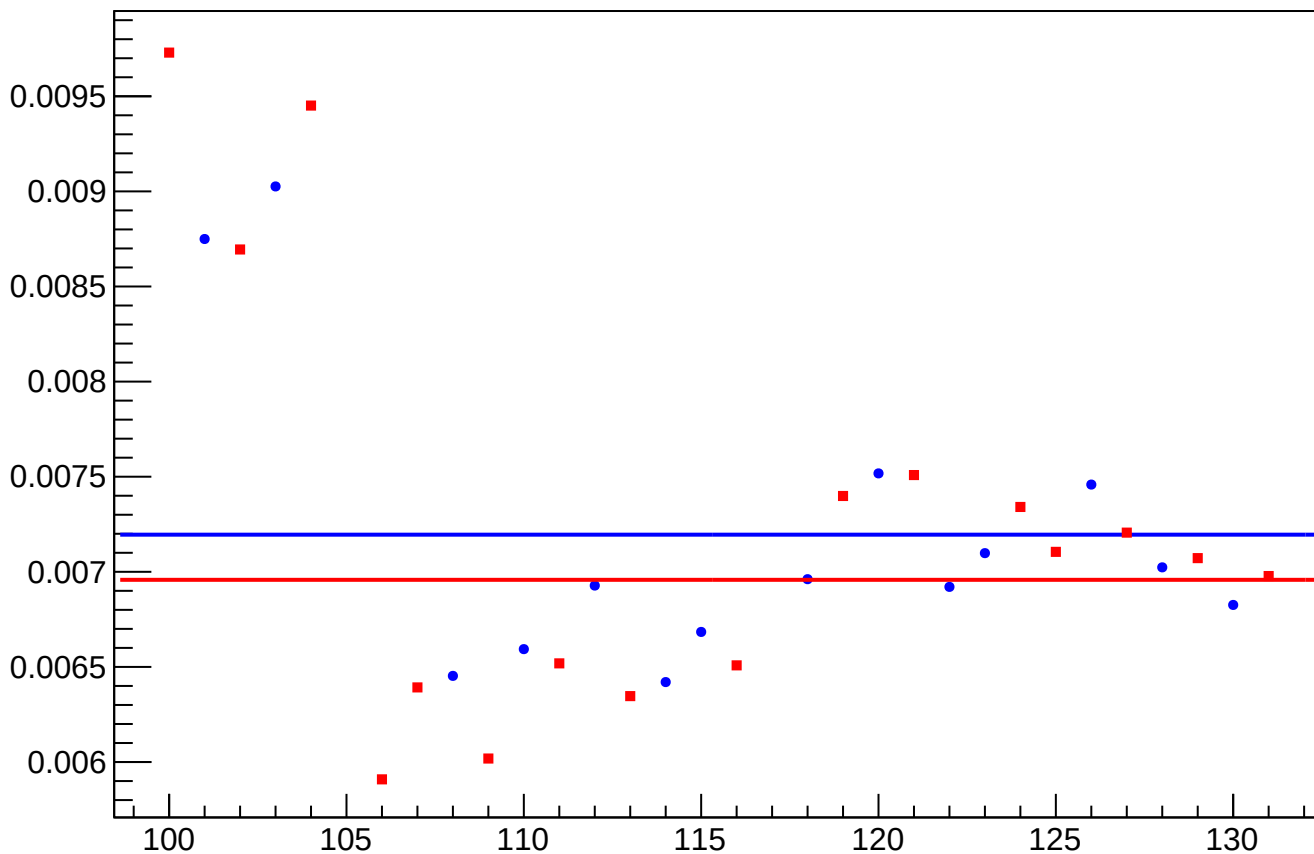
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.105+/-0.000  $\chi^2/\text{NDF}$ : 31164943296.6/28

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 113543.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 197828.7/15

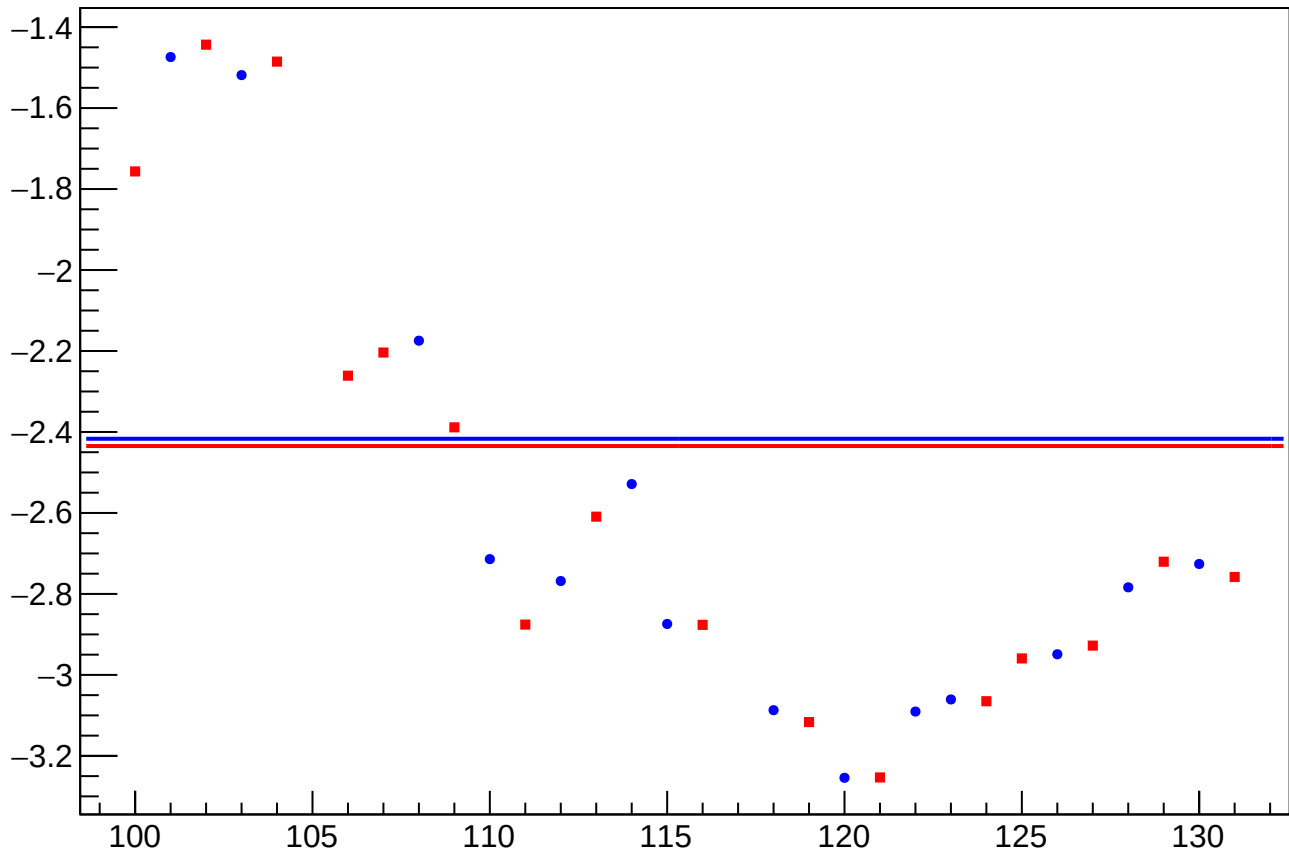
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 317567.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02Y\_mean vs Slug



Right In: -2.417+/-0.000  $\chi^2/\text{NDF}$ : 50556784976.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -2.435+/-0.000  $\chi^2/\text{NDF}$ : 49278273787.1/15

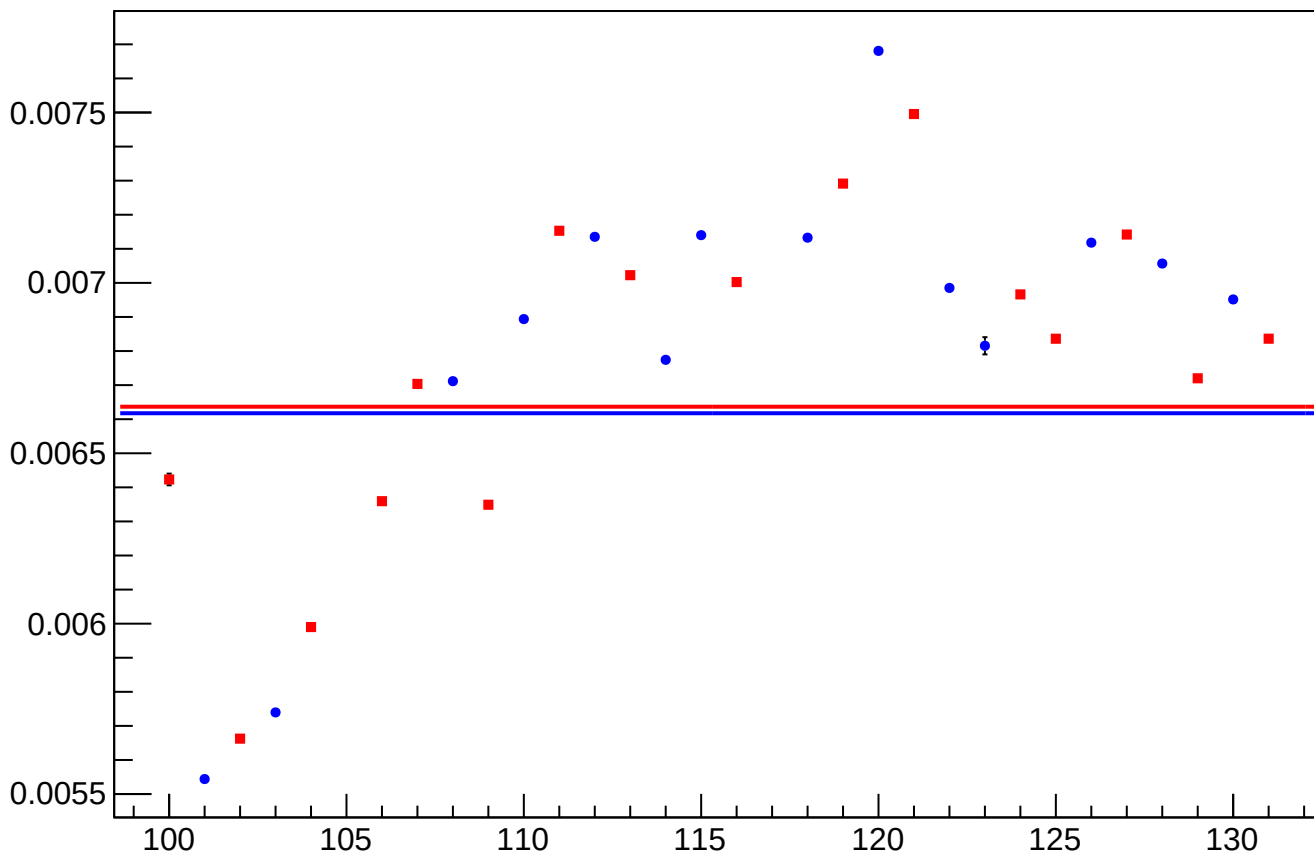
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.426+/-0.000  $\chi^2/\text{NDF}$ : 99855427957.9/30

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm2i02Y\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 108380.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 80473.5/15

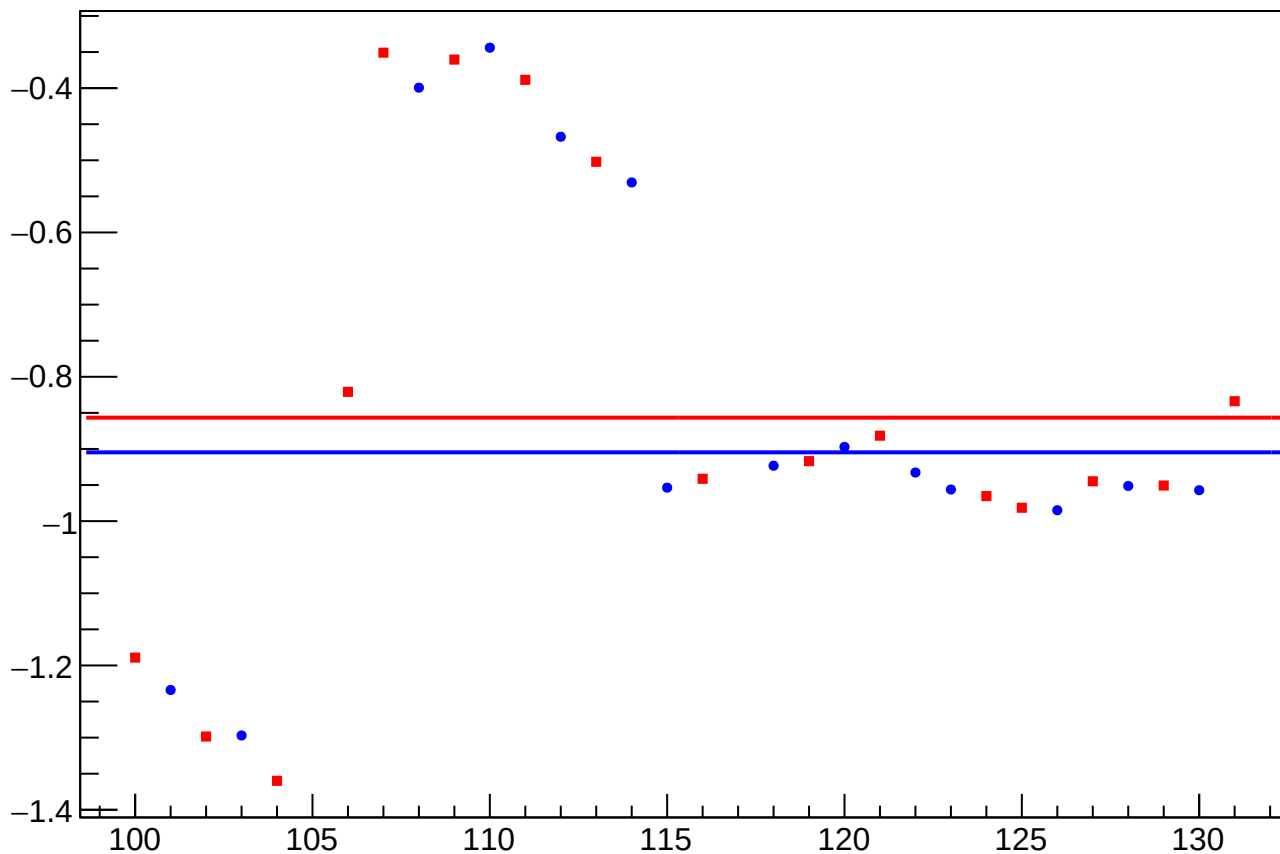
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 188900.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01X\_mean vs Slug



Right In: -0.905+/-0.000  $\chi^2/\text{NDF}$ : 3910037688.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.857+/-0.000  $\chi^2/\text{NDF}$ : 5648372052.3/15

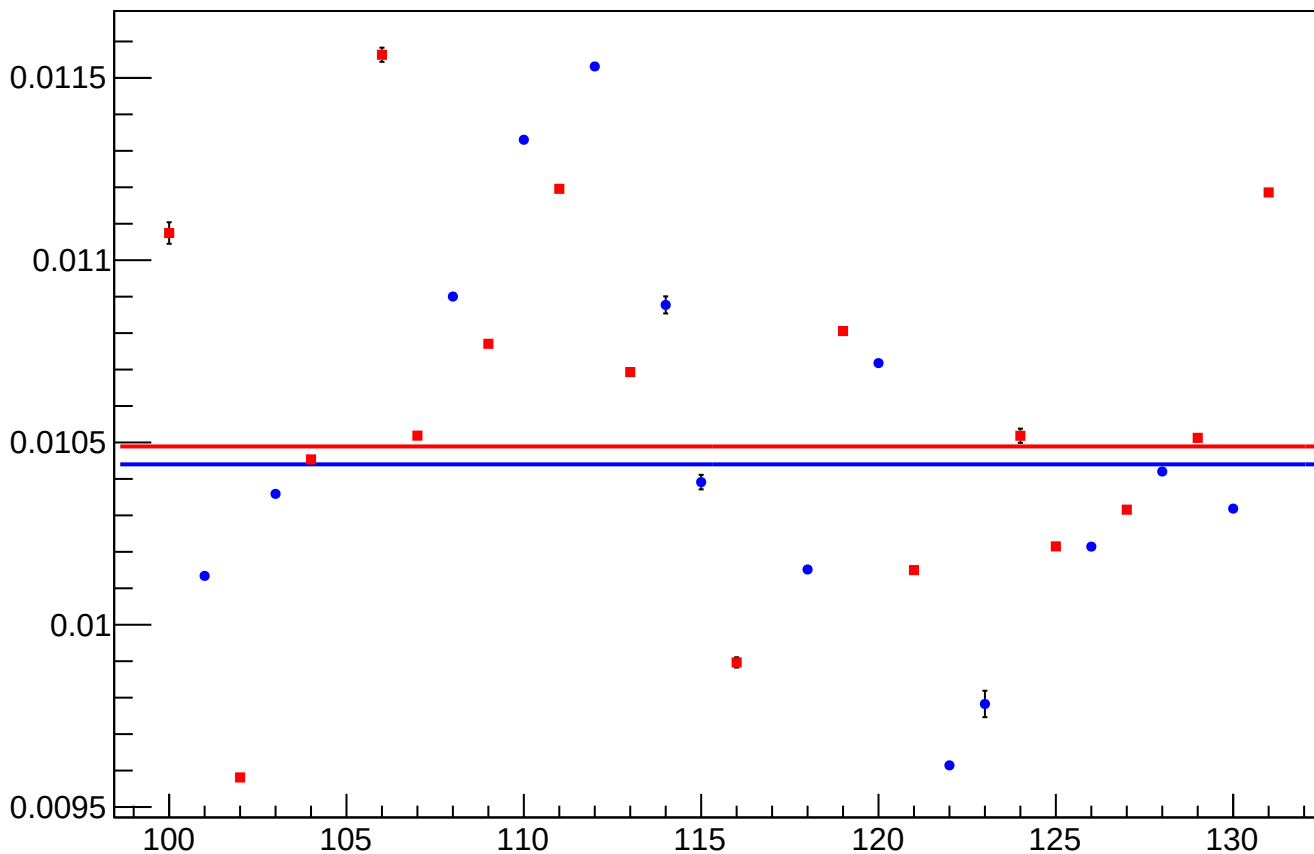
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.879+/-0.000  $\chi^2/\text{NDF}$ : 9616296336.5/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01X\_rms vs Slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 23387.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 24788.3/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

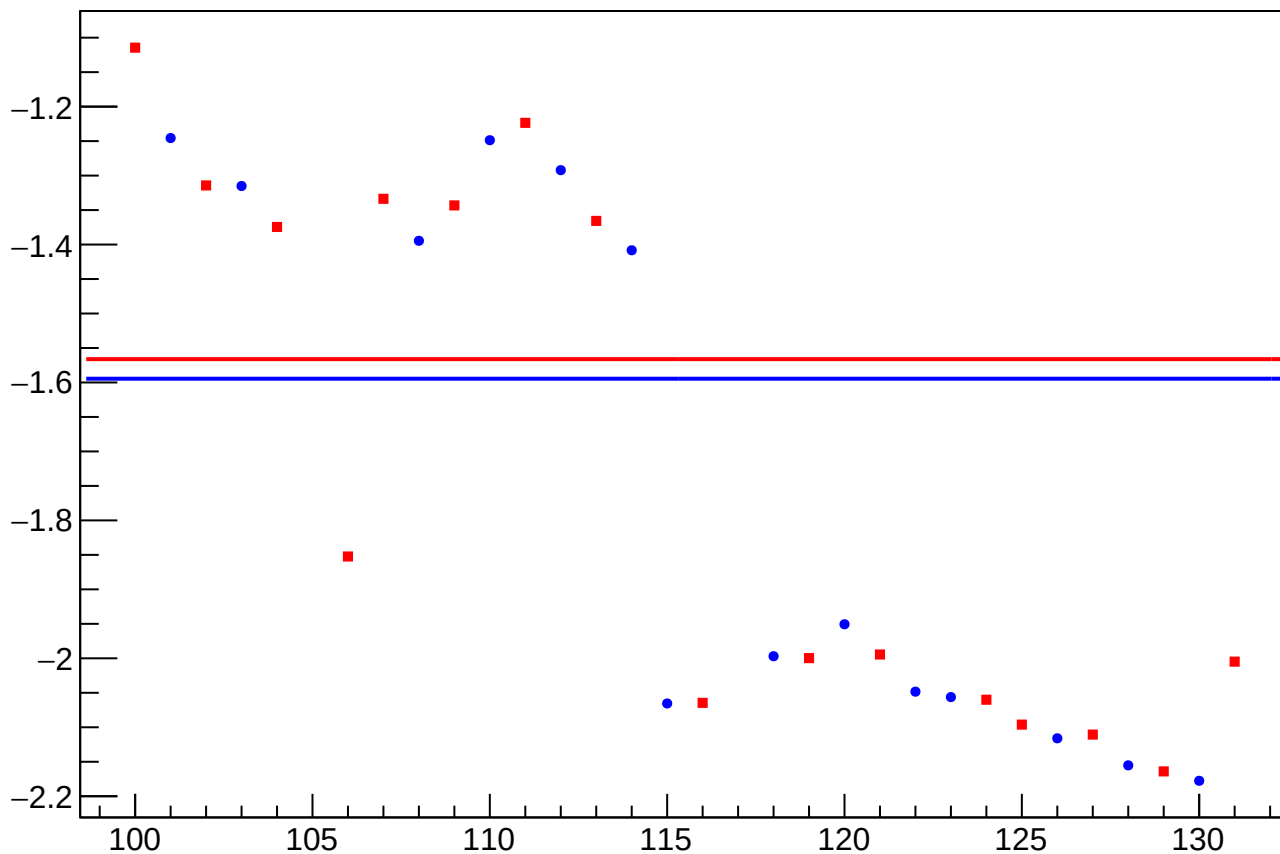
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 48296.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0i01Y\_mean vs Slug



Right In: -1.595+/-0.000  $\chi^2/\text{NDF}$ : 114506361959.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.566+/-0.000  $\chi^2/\text{NDF}$ : 106048652611.5/15

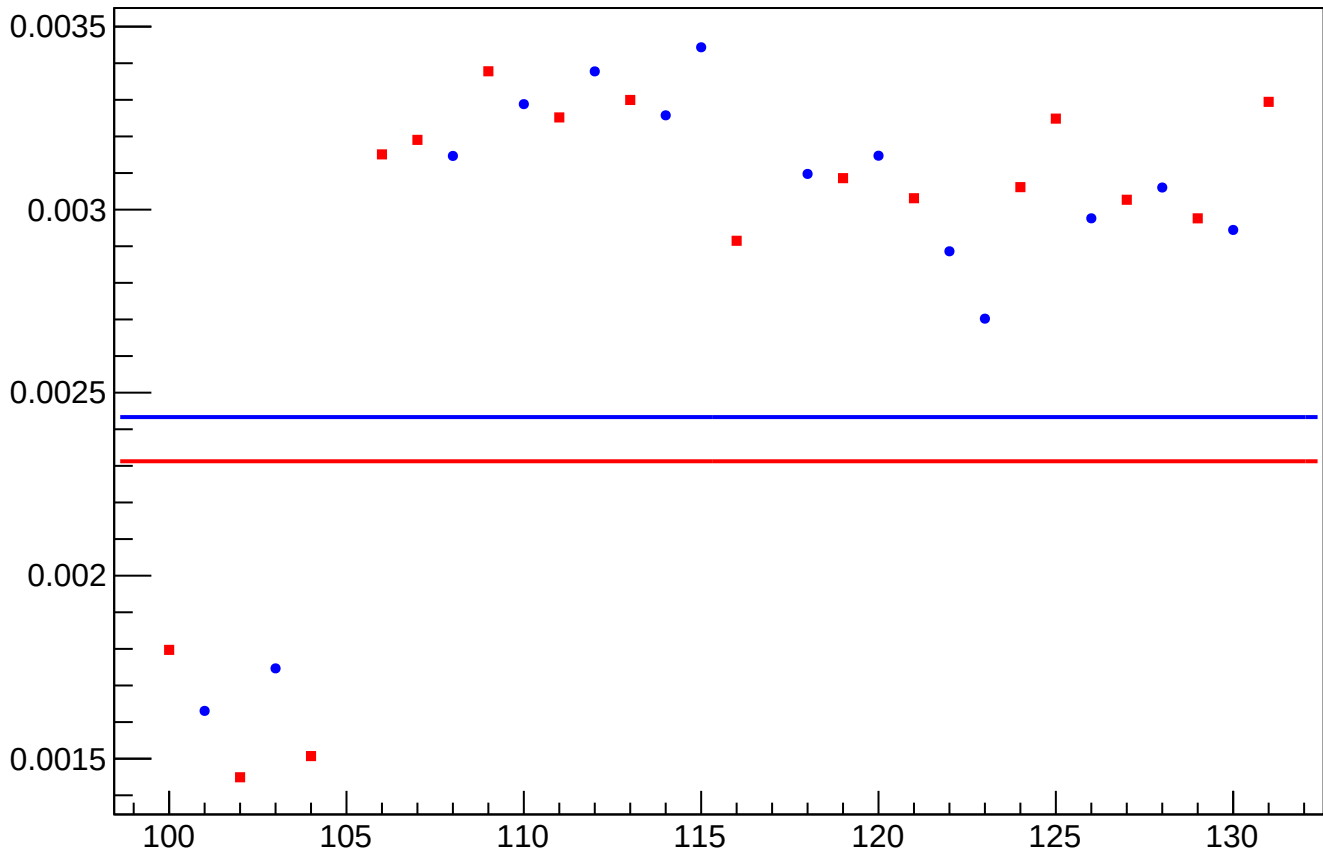
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.579+/-0.000  $\chi^2/\text{NDF}$ : 220881573318.2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01Y\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 758865.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 1238125.1/15

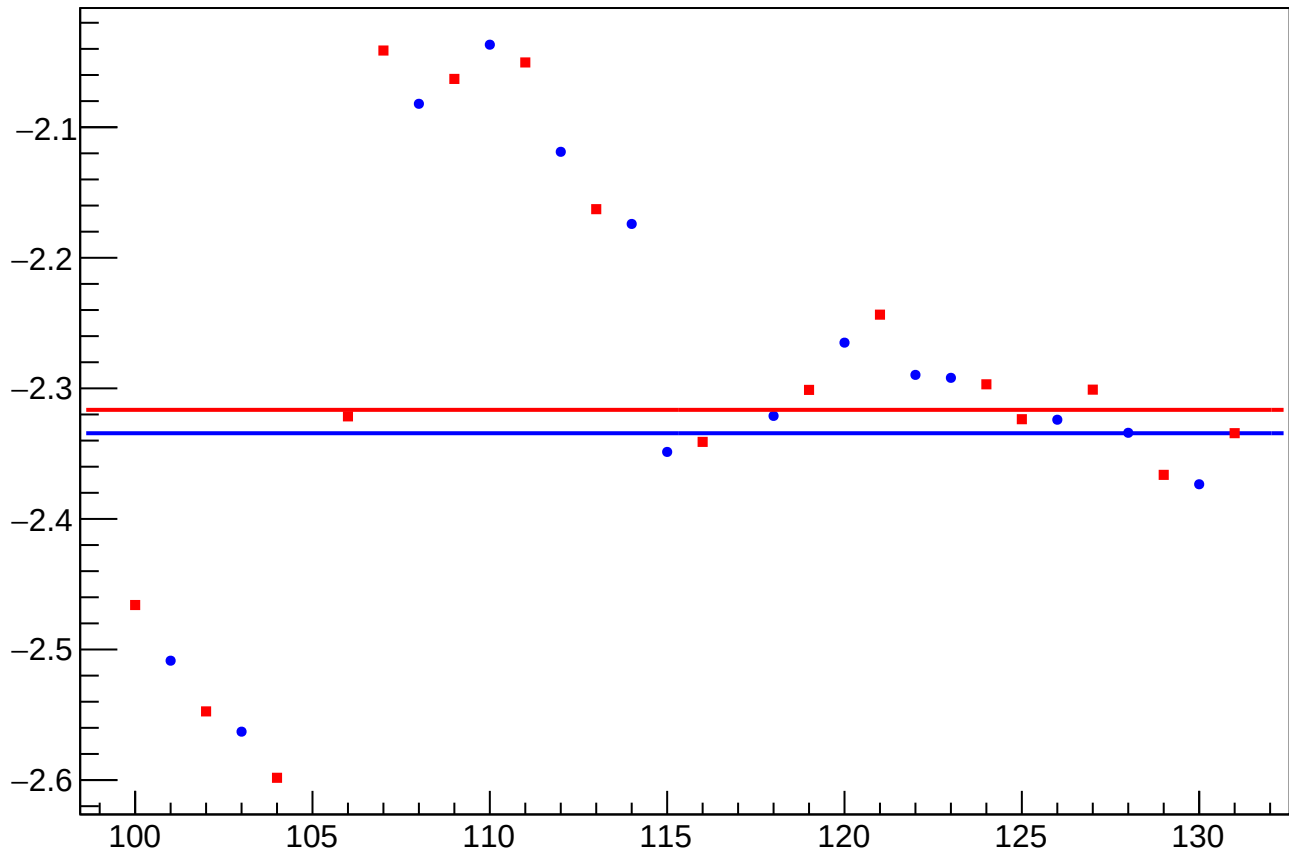
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 2008796.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aX\_mean vs Slug



Right In: -2.334+/-0.000  $\chi^2/\text{NDF}$ : 3017749940.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -2.316+/-0.000  $\chi^2/\text{NDF}$ : 4426199283.9/15

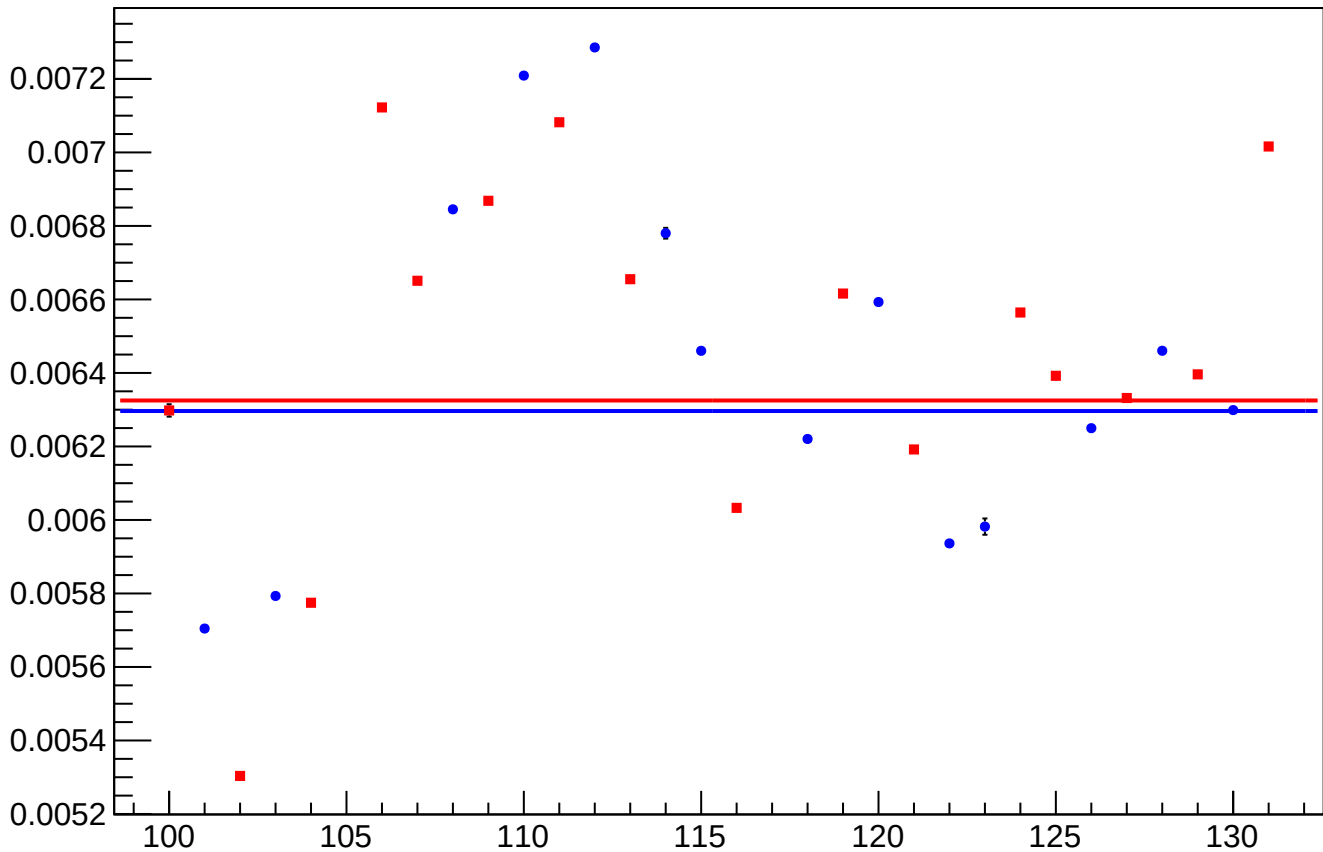
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -2.325+/-0.000  $\chi^2/\text{NDF}$ : 7465666604.2/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aX\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 59806.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 84451.4/15

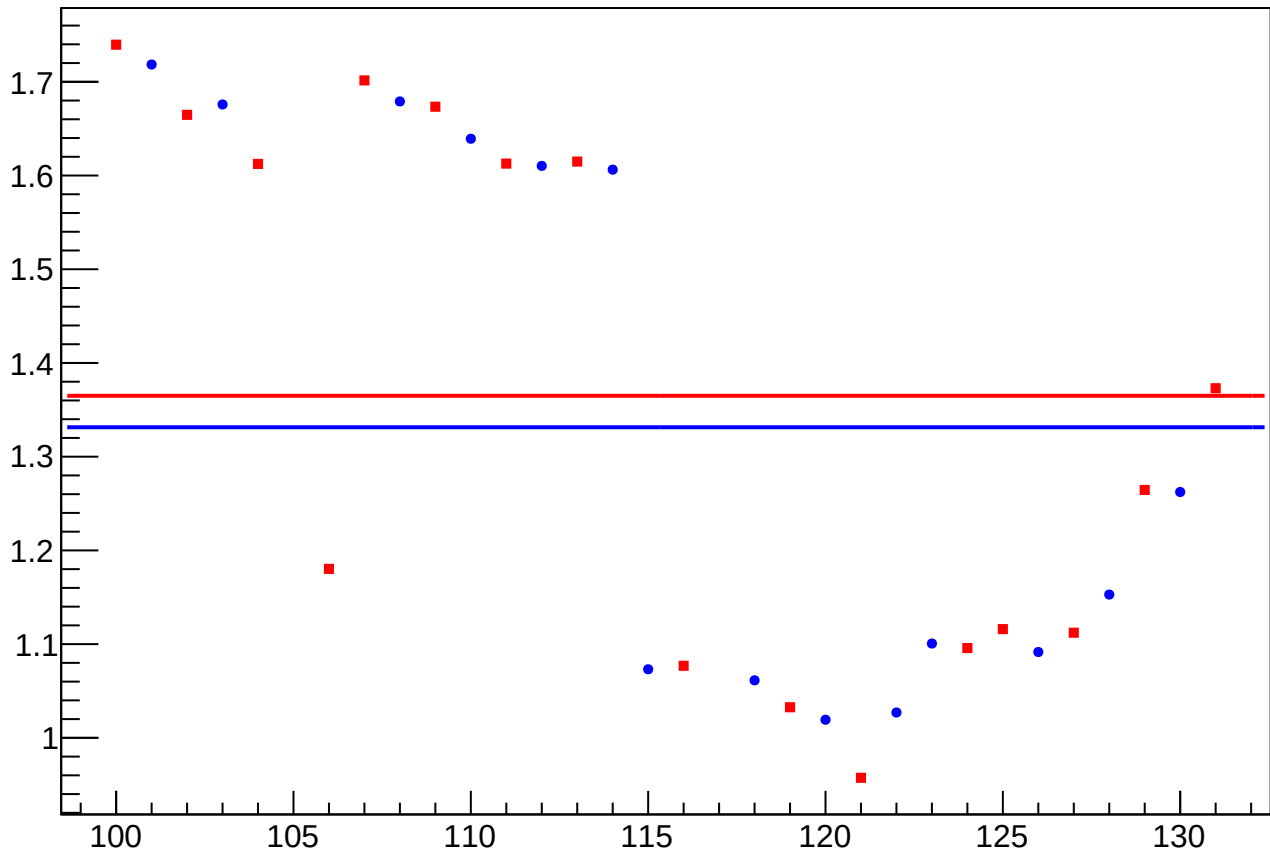
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 144368.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aY\_mean vs Slug



Right In: 1.331+/-0.000  $\chi^2/\text{NDF}$ : 94777362263.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.365+/-0.000  $\chi^2/\text{NDF}$ : 101453868120.0/15

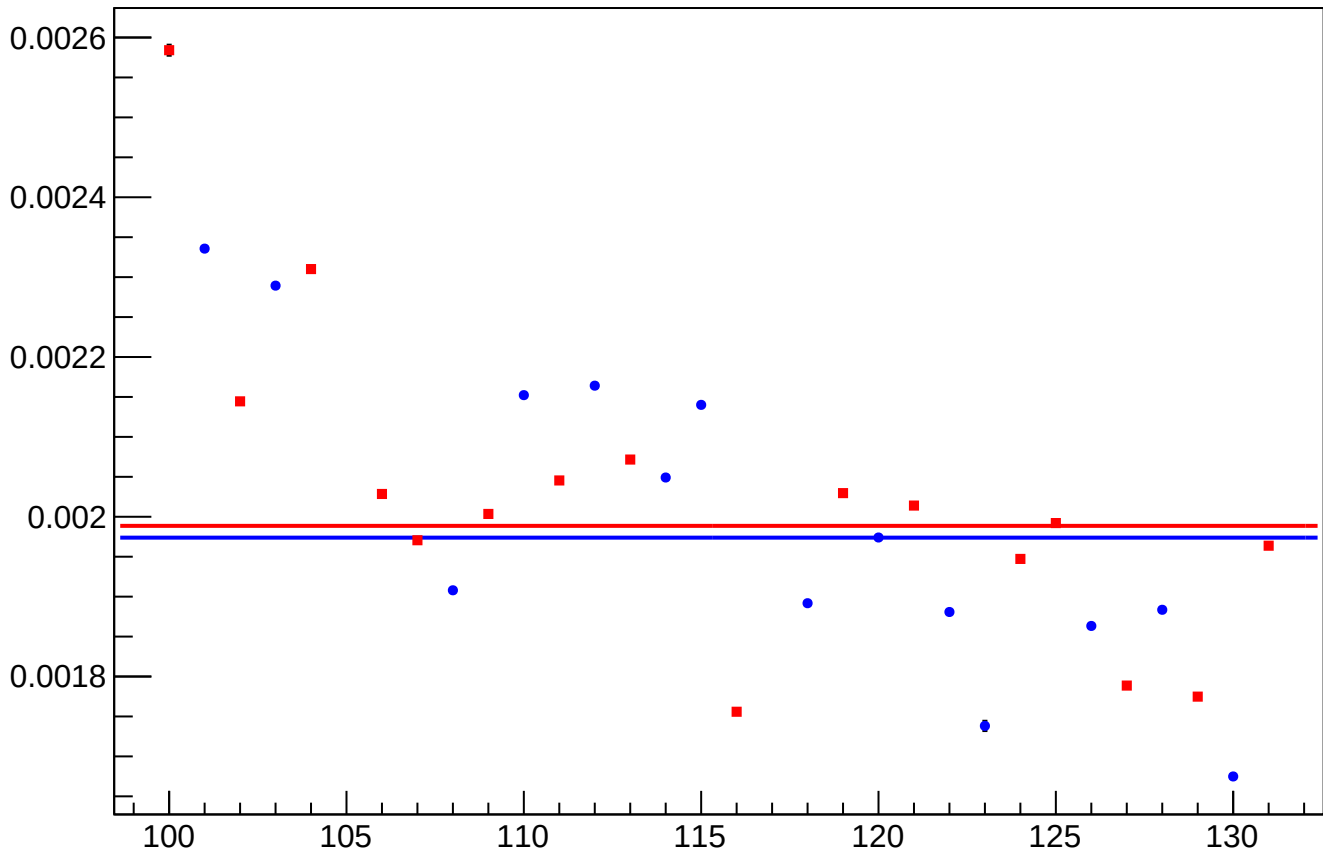
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.349+/-0.000  $\chi^2/\text{NDF}$ : 196968329065.6

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0i01aY\_rms vs Slug



Right In: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 101787.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 64976.8/15

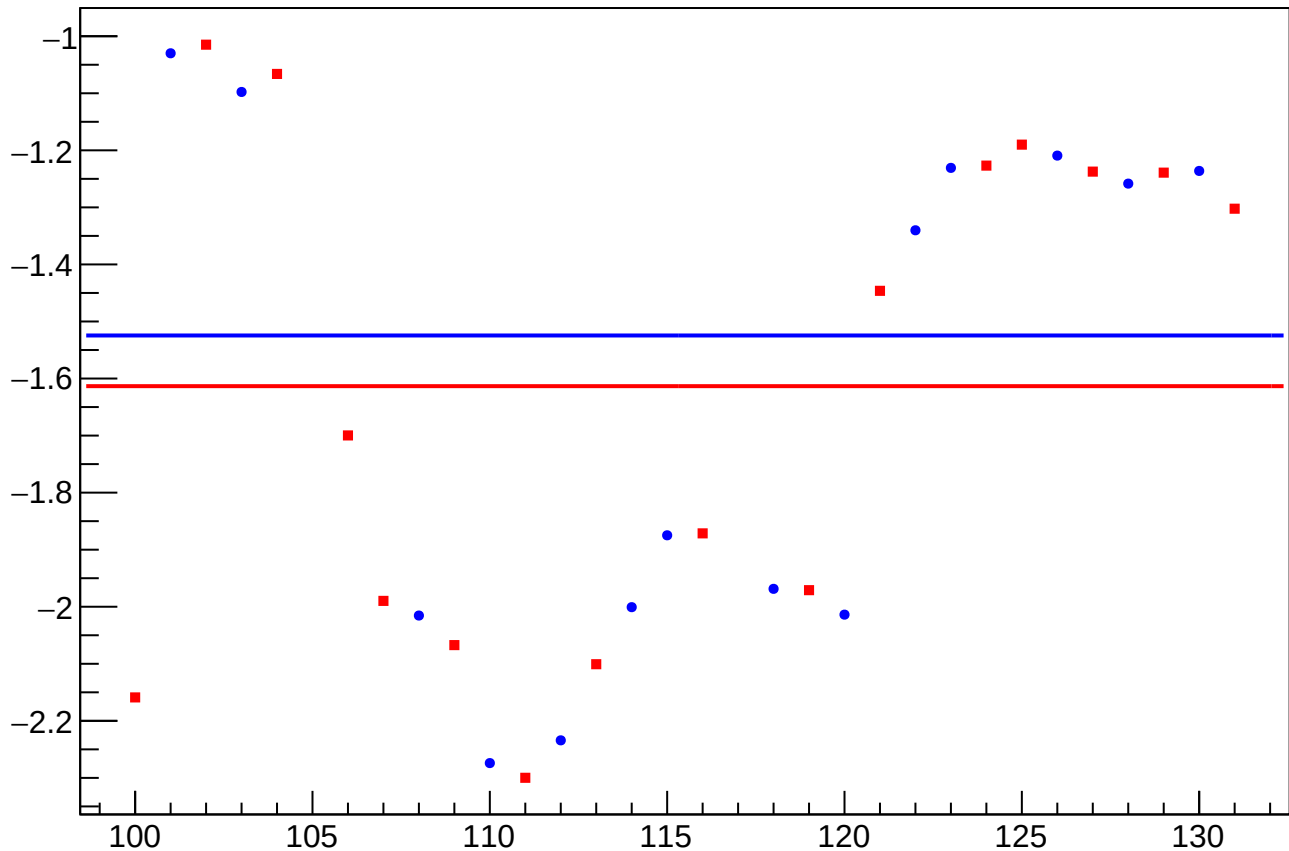
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.002+/-0.000  $\chi^2/\text{NDF}$ : 167049.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01X\_mean vs Slug



Right In: -1.525+/-0.000  $\chi^2/\text{NDF}$ : 21680168720.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.613+/-0.000  $\chi^2/\text{NDF}$ : 27756455147.9/15

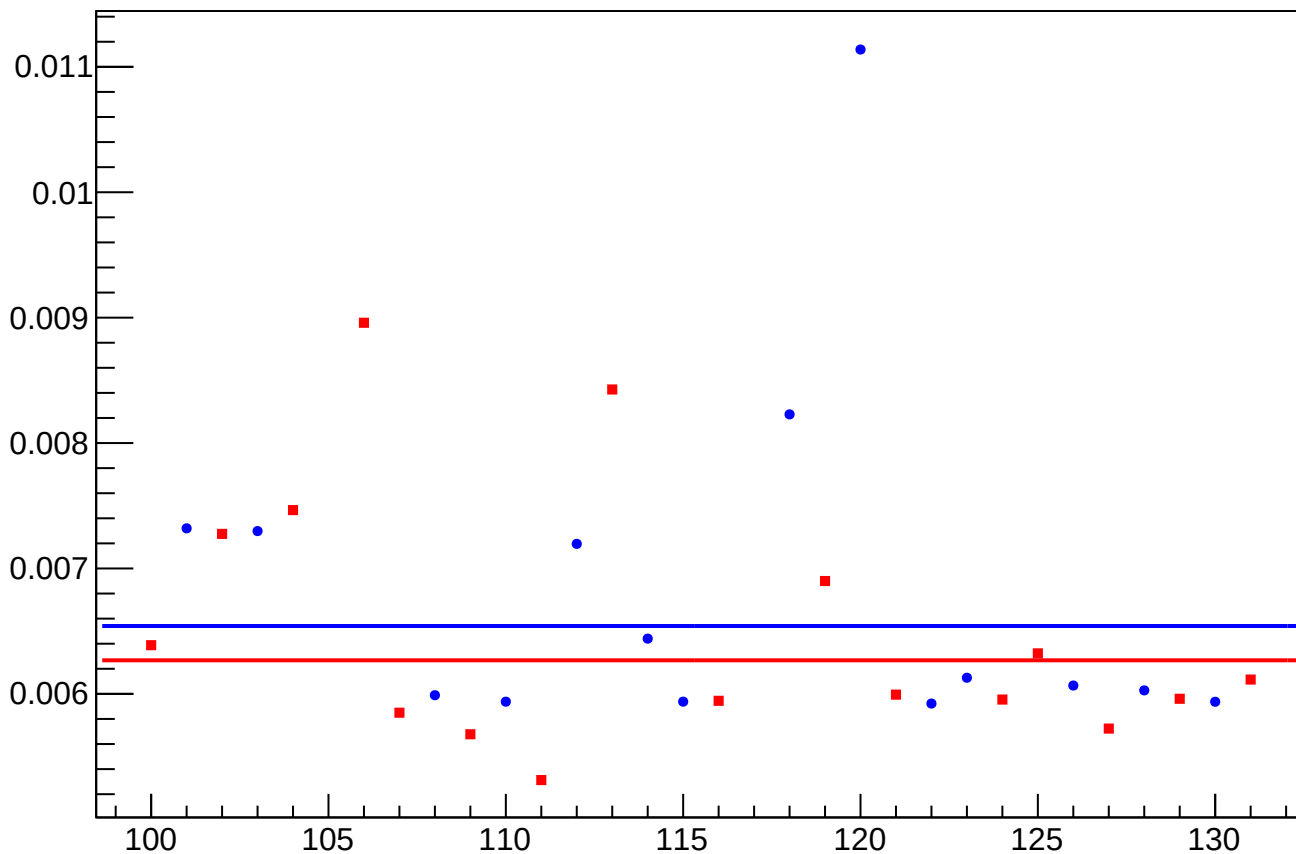
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.574+/-0.000  $\chi^2/\text{NDF}$ : 49922682269.7/17

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 202710.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 195600.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

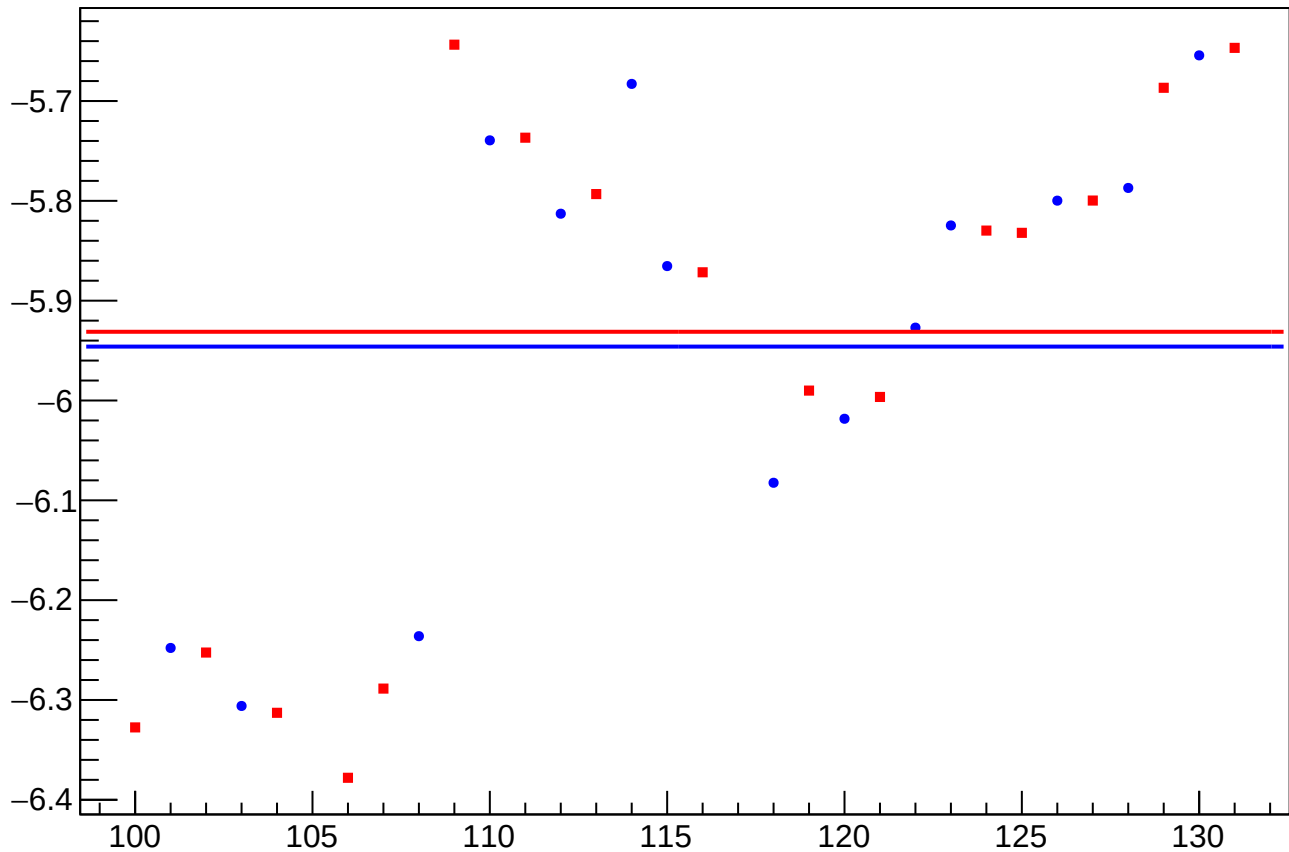
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 407524.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l01Y\_mean vs Slug



Right In: -5.946+/-0.000  $\chi^2/\text{NDF}$ : 9370235398.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.931+/-0.000  $\chi^2/\text{NDF}$ : 12138740087.1/15

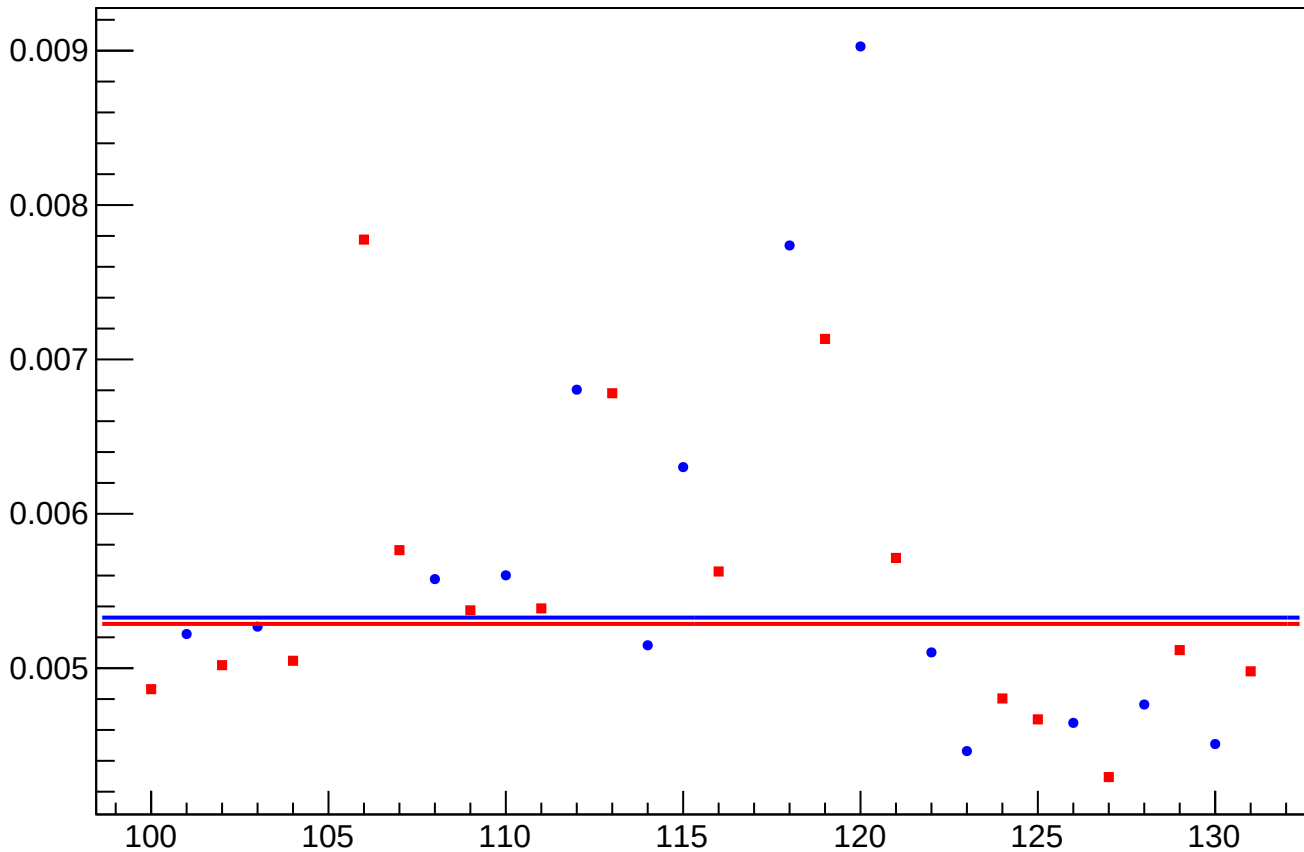
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.938+/-0.000  $\chi^2/\text{NDF}$ : 21528622655.1/15

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l01Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 295543.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 223580.0/15

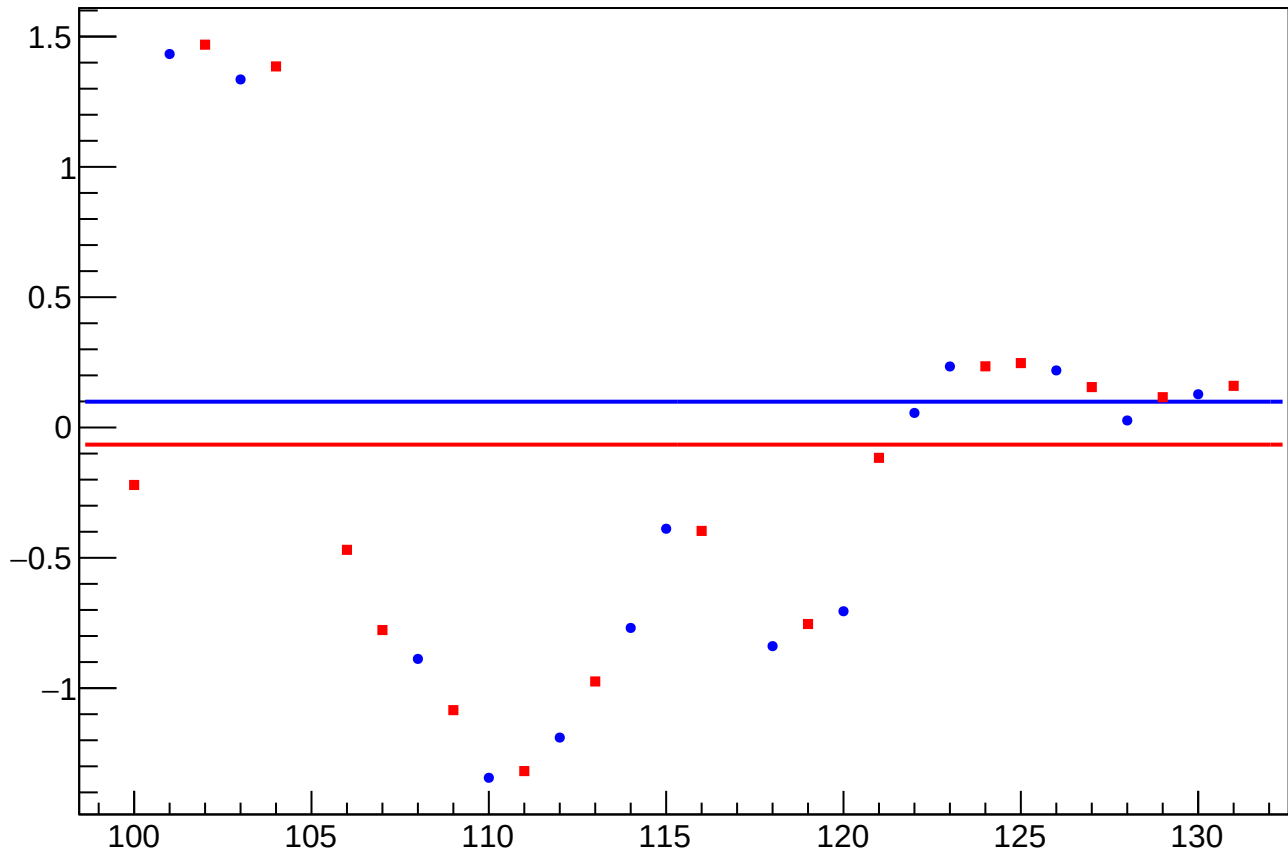
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 519423.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02X\_mean vs Slug



Right In: 0.099+/-0.000  $\chi^2/\text{NDF}$ : 16371098240.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.066+/-0.000  $\chi^2/\text{NDF}$ : 20755107052.9/15

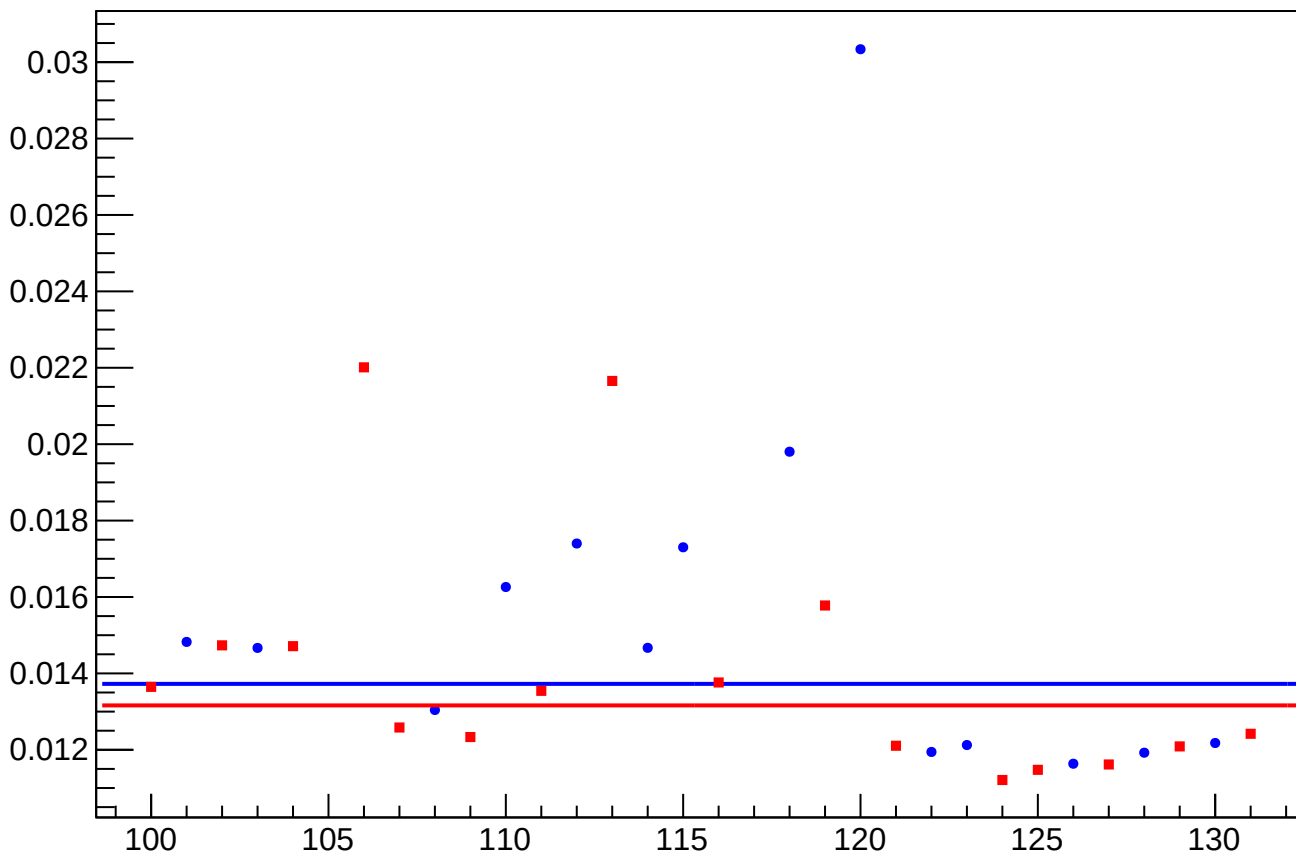
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 37494813413.3/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02X\_rms vs Slug



Right In: 0.014+/-0.000  $\chi^2/\text{NDF}$ : 374935.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 267804.4/15

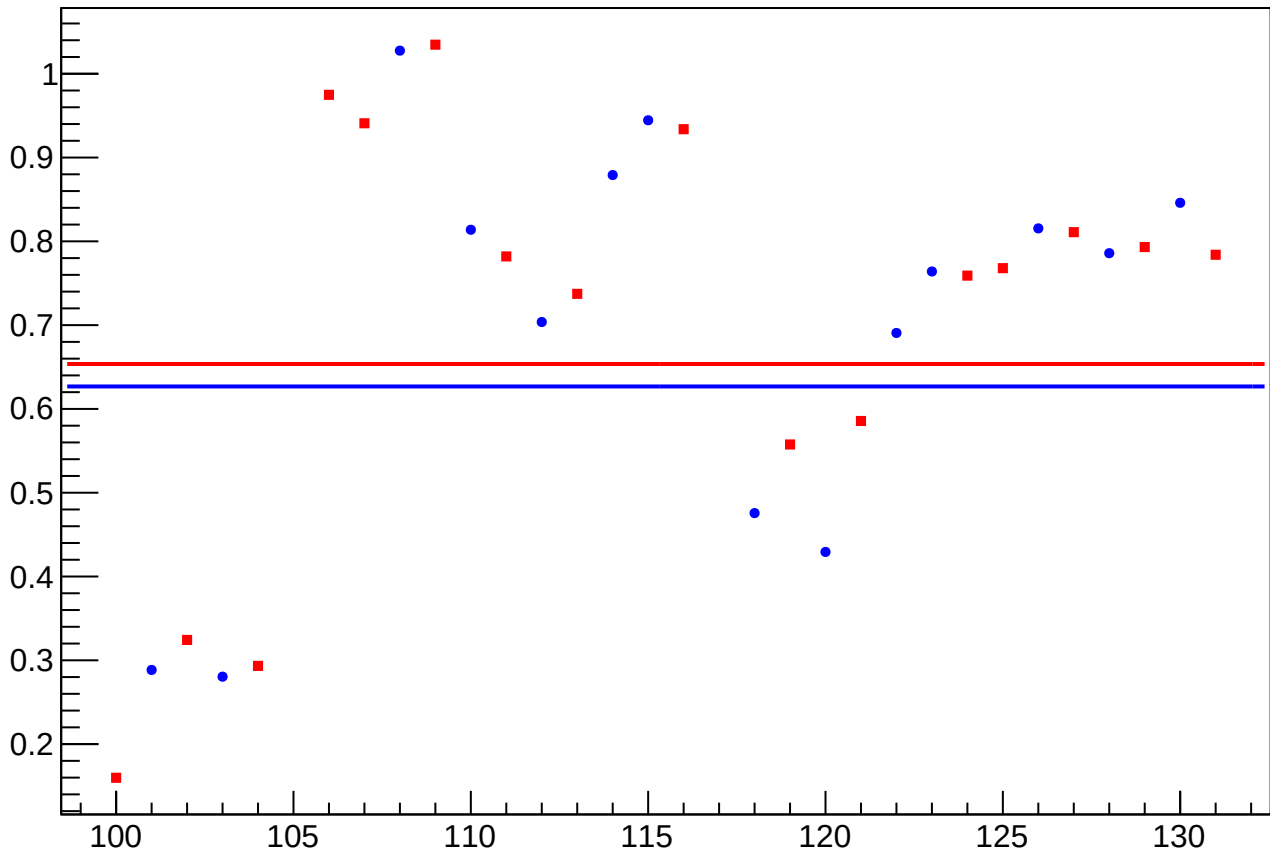
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.013+/-0.000  $\chi^2/\text{NDF}$ : 651365.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02Y\_mean vs Slug



Right In:  $0.627 \pm 0.000$   $\chi^2/\text{NDF}$ : 5076232832.1/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $0.654 \pm 0.000$   $\chi^2/\text{NDF}$ : 5712652335.9/15

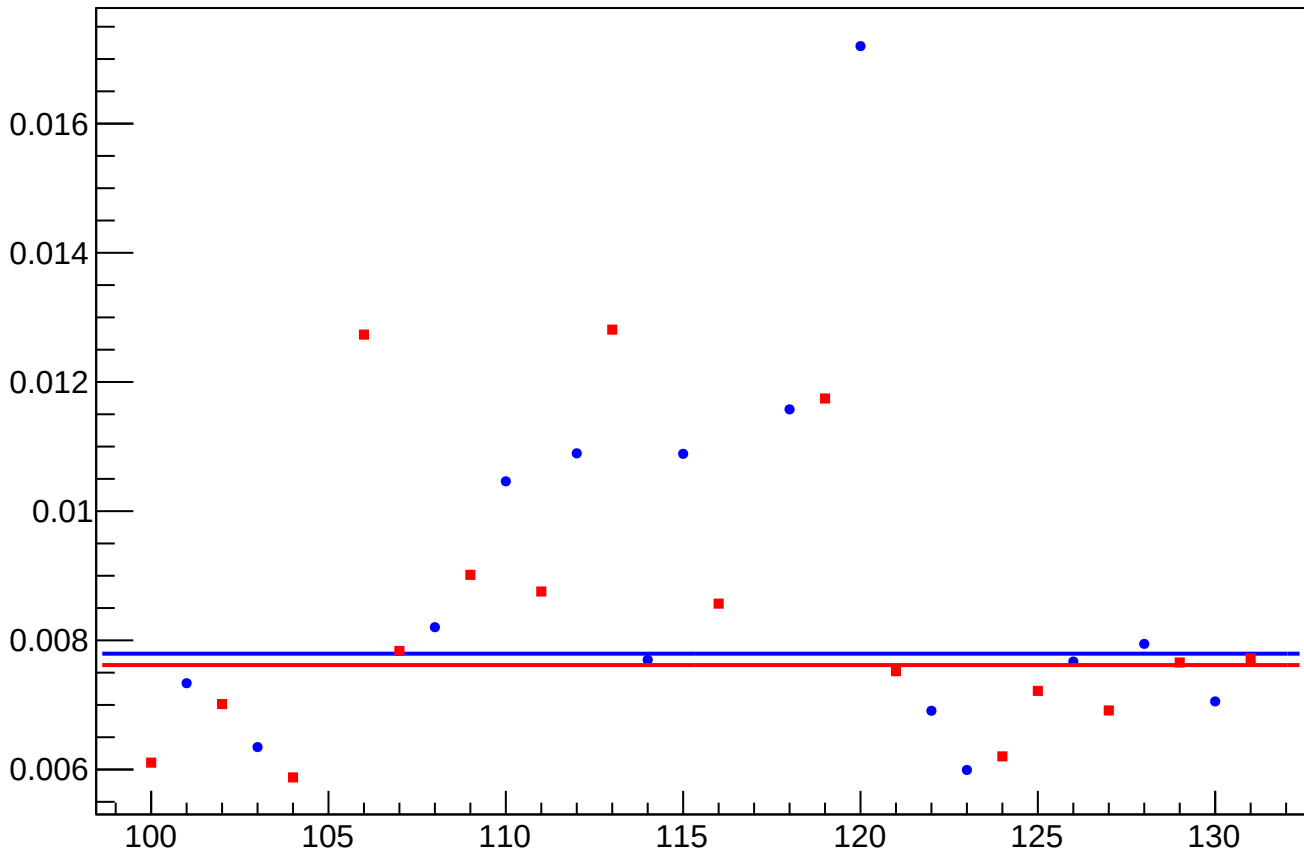
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $0.641 \pm 0.000$   $\chi^2/\text{NDF}$ : 10818040829.8/2

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l02Y\_rms vs Slug



Right In: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 459013.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 432626.0/15

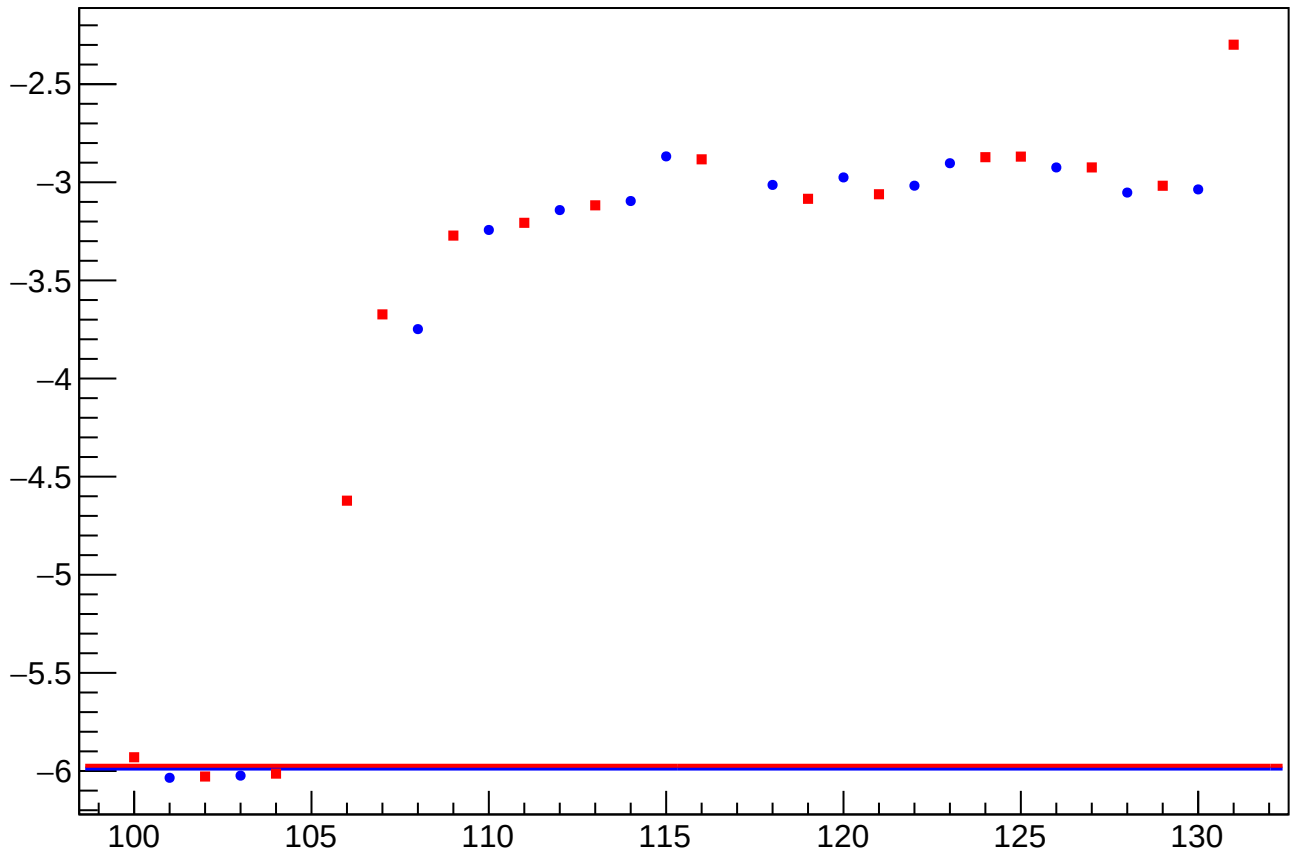
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 894158.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03X\_mean vs Slug



Right In: -5.988+/-0.000  $\chi^2/\text{NDF}$ : 5193510400.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -5.973+/-0.000  $\chi^2/\text{NDF}$ : 5156135020.8/15

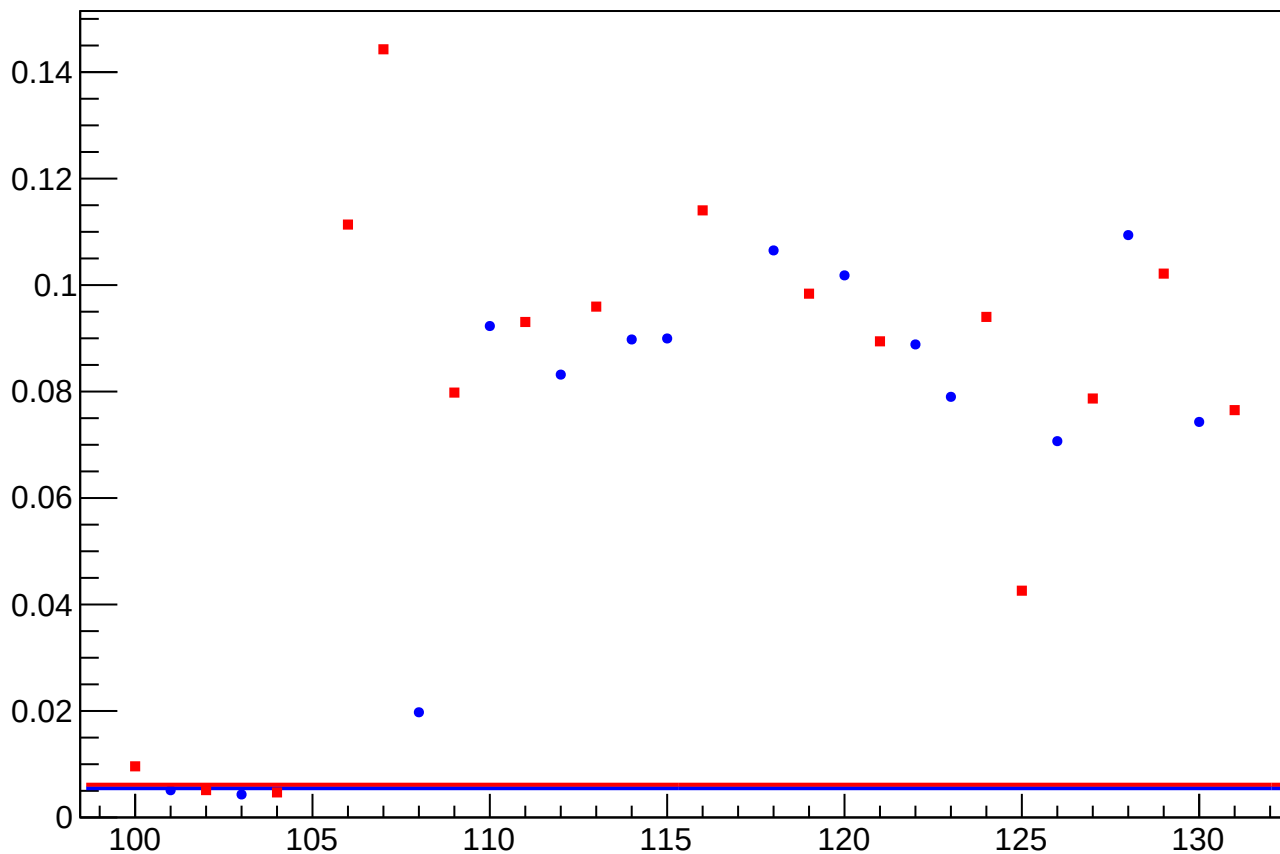
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -5.981+/-0.000  $\chi^2/\text{NDF}$ : 10353994938.9/13

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03X\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 6087149.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 7545603.2/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

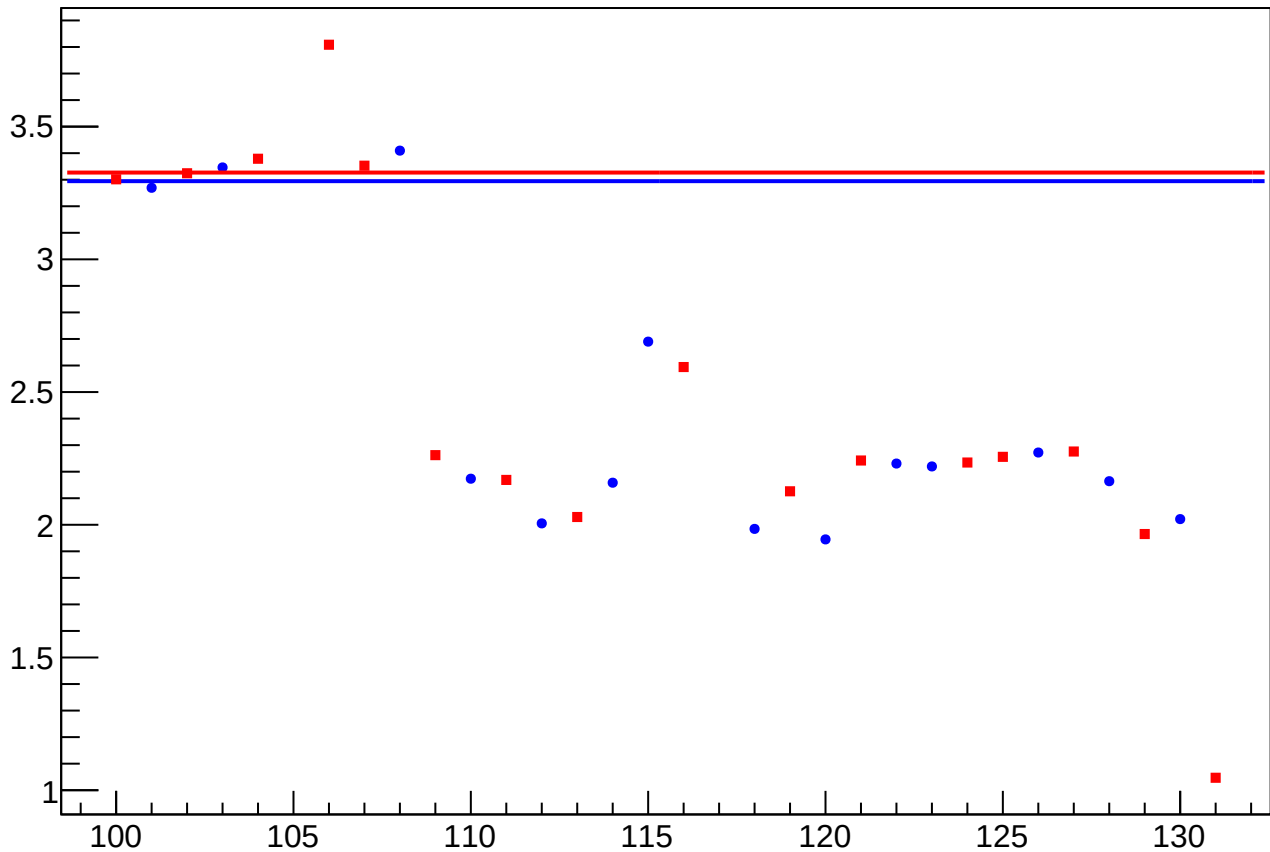
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 13651155.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l03Y\_mean vs Slug



Right In: 3.295+/-0.000  $\chi^2/\text{NDF}$ : 610930438.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 3.327+/-0.000  $\chi^2/\text{NDF}$ : 888725897.9/15

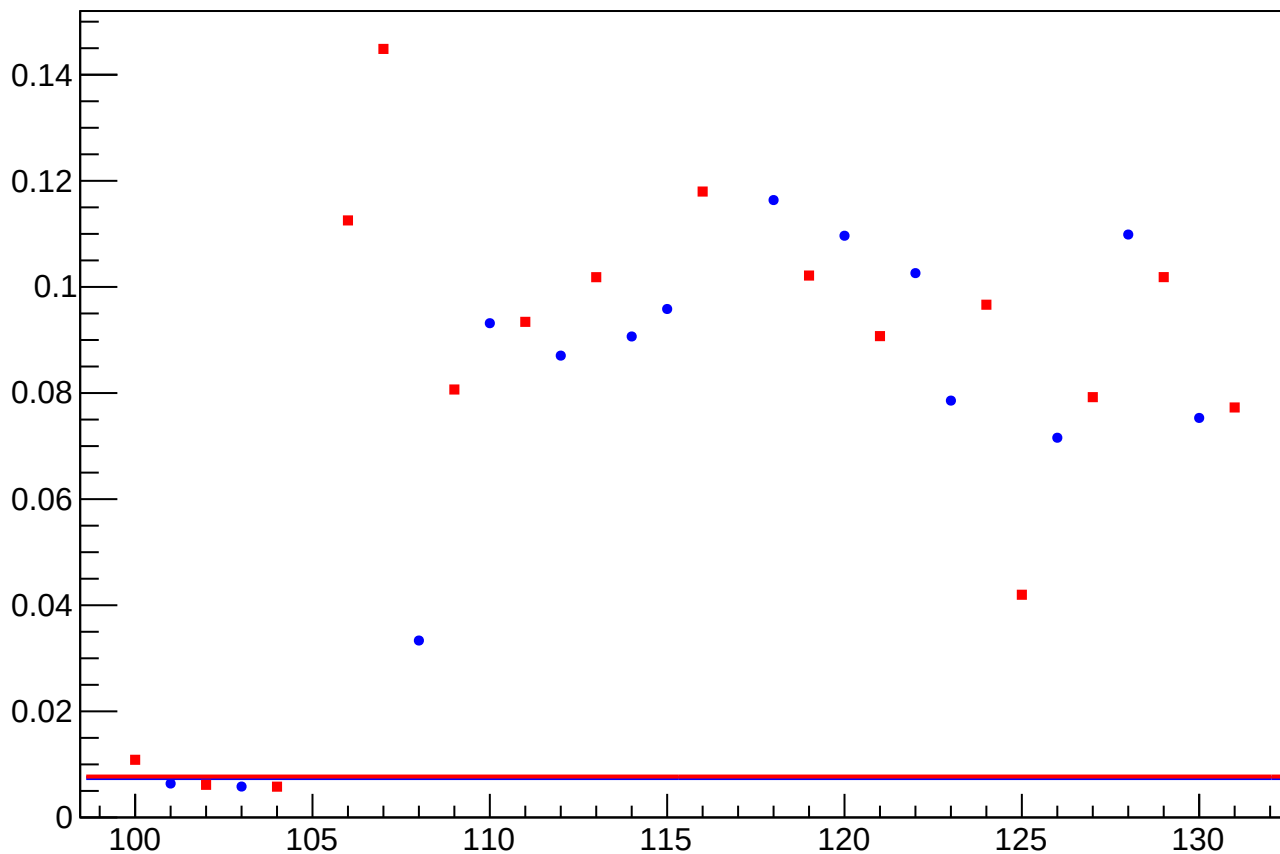
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 3.310+/-0.000  $\chi^2/\text{NDF}$ : 1513898096.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l03Y\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 6034274.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 7312327.7/15

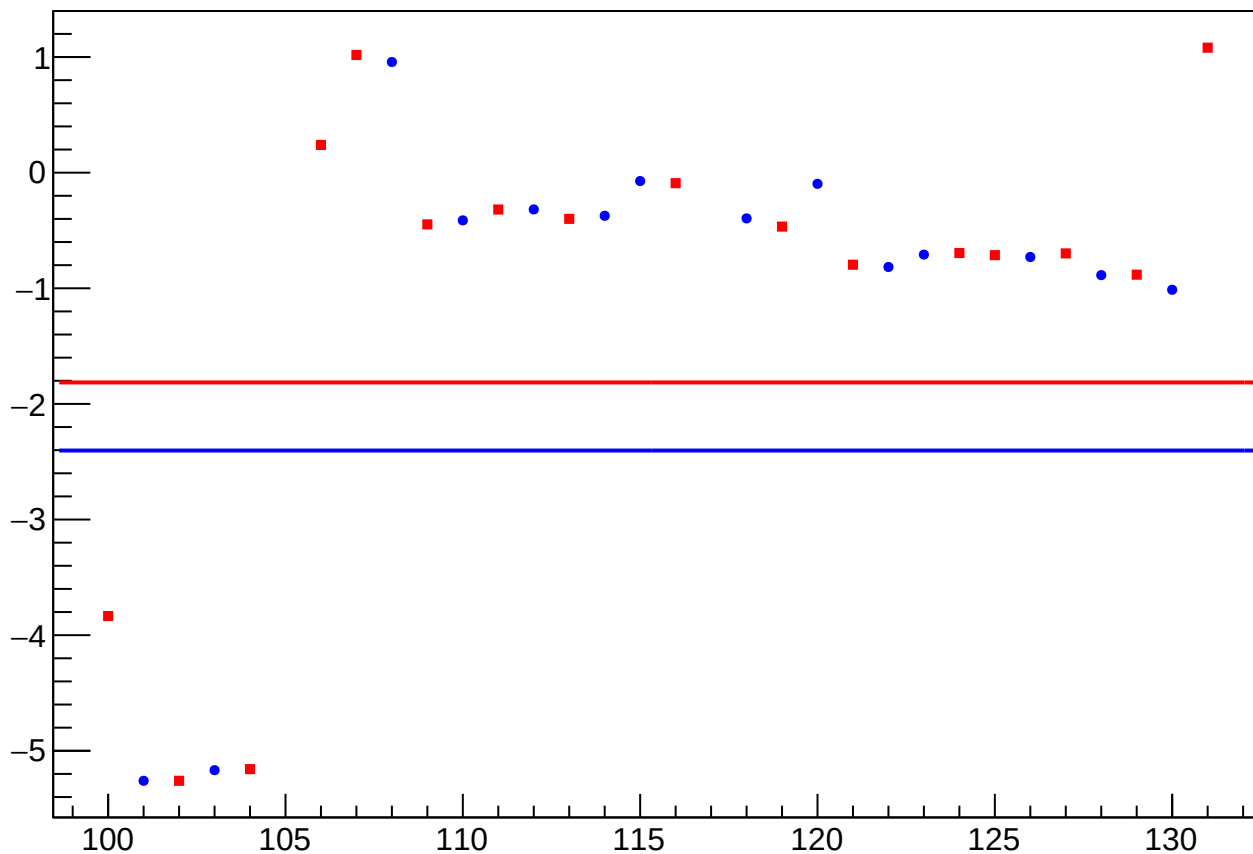
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.008+/-0.000  $\chi^2/\text{NDF}$ : 13348833.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04X\_mean vs Slug



Right In: -2.403+/-0.000  $\chi^2/\text{NDF}$ : 109534257670.0/13

+ 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

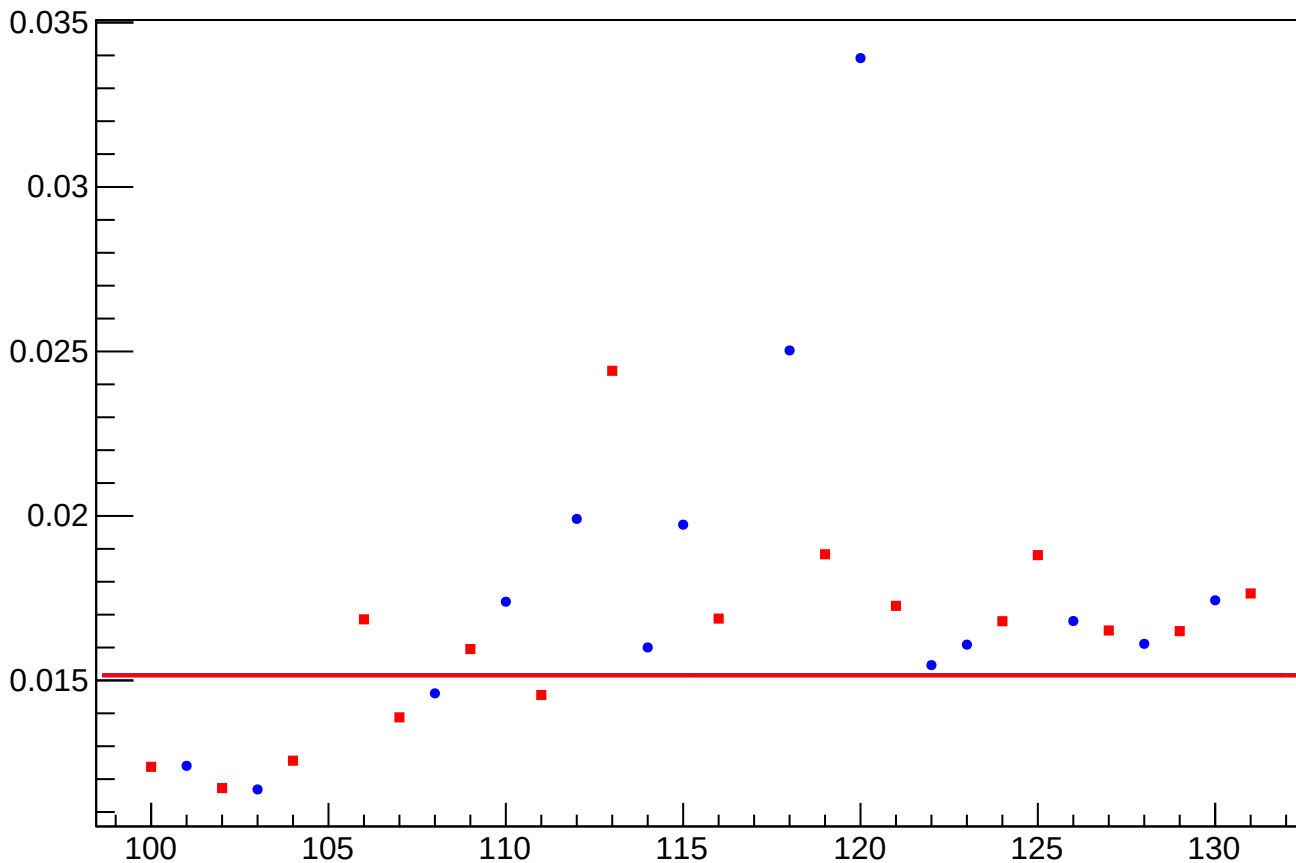
Right Out: -1.814+/-0.000  $\chi^2/\text{NDF}$ : 129064507668.3/15

All: -2.082+/-0.000  $\chi^2/\text{NDF}$ : 242184726731.7

- 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\_bpm0l04X\_rms vs Slug



Right In: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 528213.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 335105.8/15

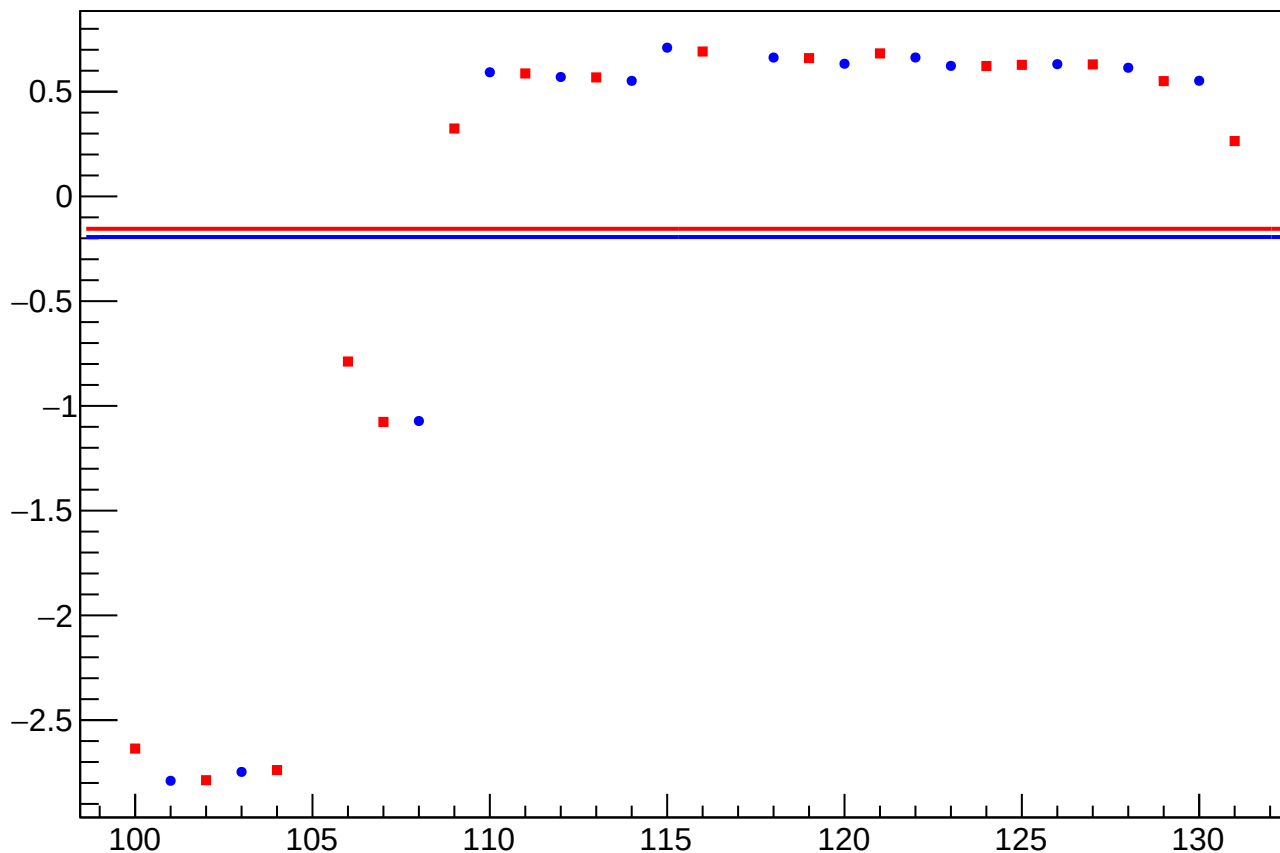
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.015+/-0.000  $\chi^2/\text{NDF}$ : 863320.2/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l04Y\_mean vs Slug



Right In: -0.194+/-0.000  $\chi^2/\text{NDF}$ : 708869594822.9/13

+ 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

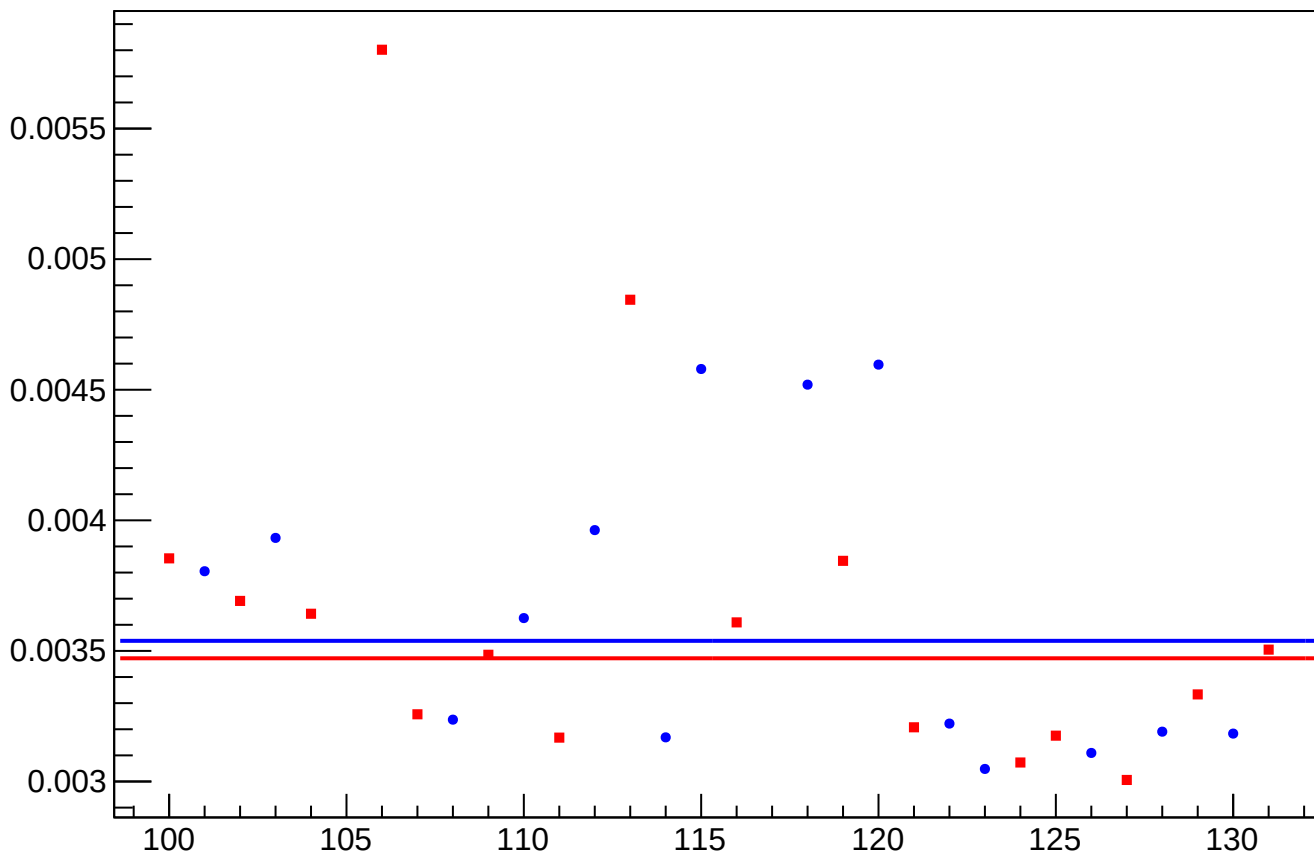
Right Out: -0.155+/-0.000  $\chi^2/\text{NDF}$ : 757872969927.9/15

All: -0.173+/-0.000  $\chi^2/\text{NDF}$ : 1467072906872

- 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\_bpm0l04Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 168881.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 213153.8/15

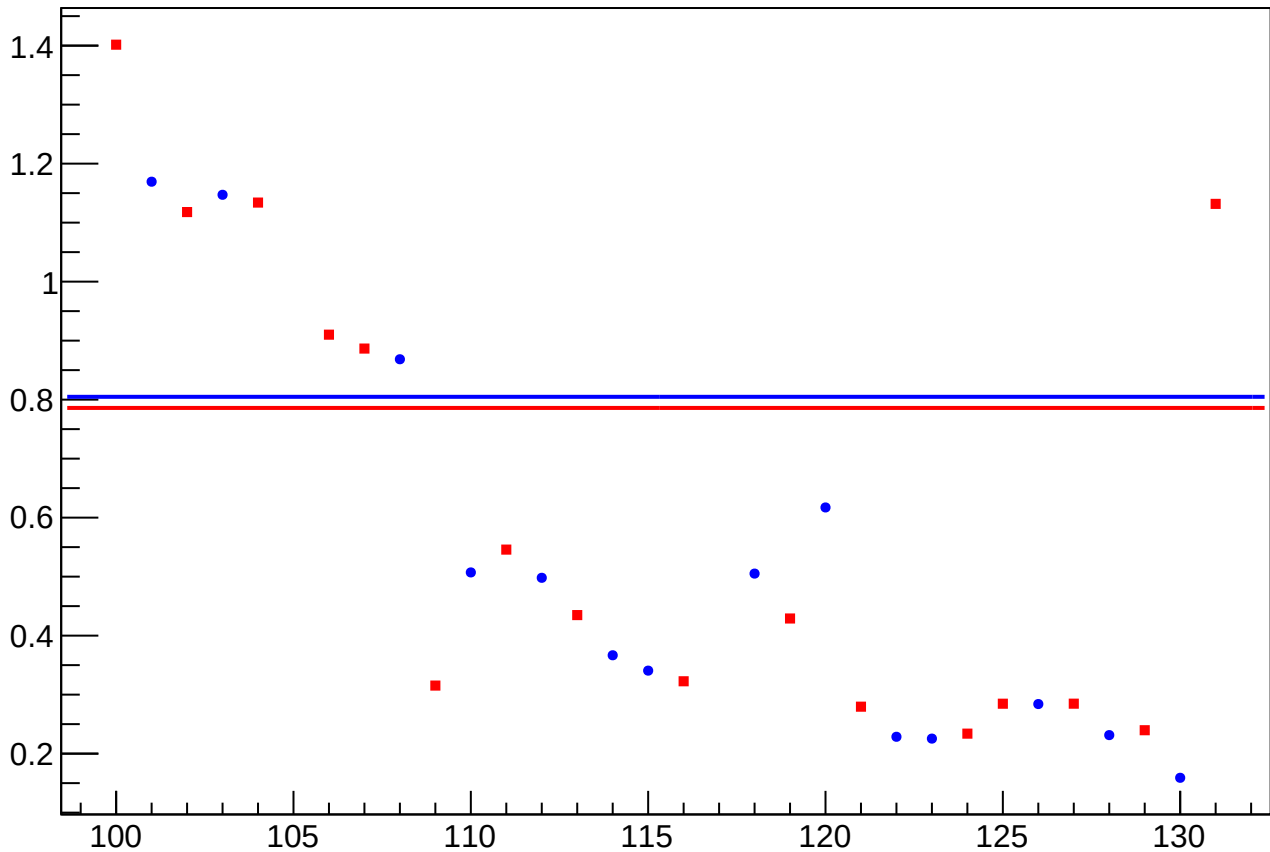
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 383938.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l05X\_mean vs Slug



Right In: 0.805+/-0.000  $\chi^2/\text{NDF}$ : 20447099842.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.786+/-0.000  $\chi^2/\text{NDF}$ : 20526824614.8/15

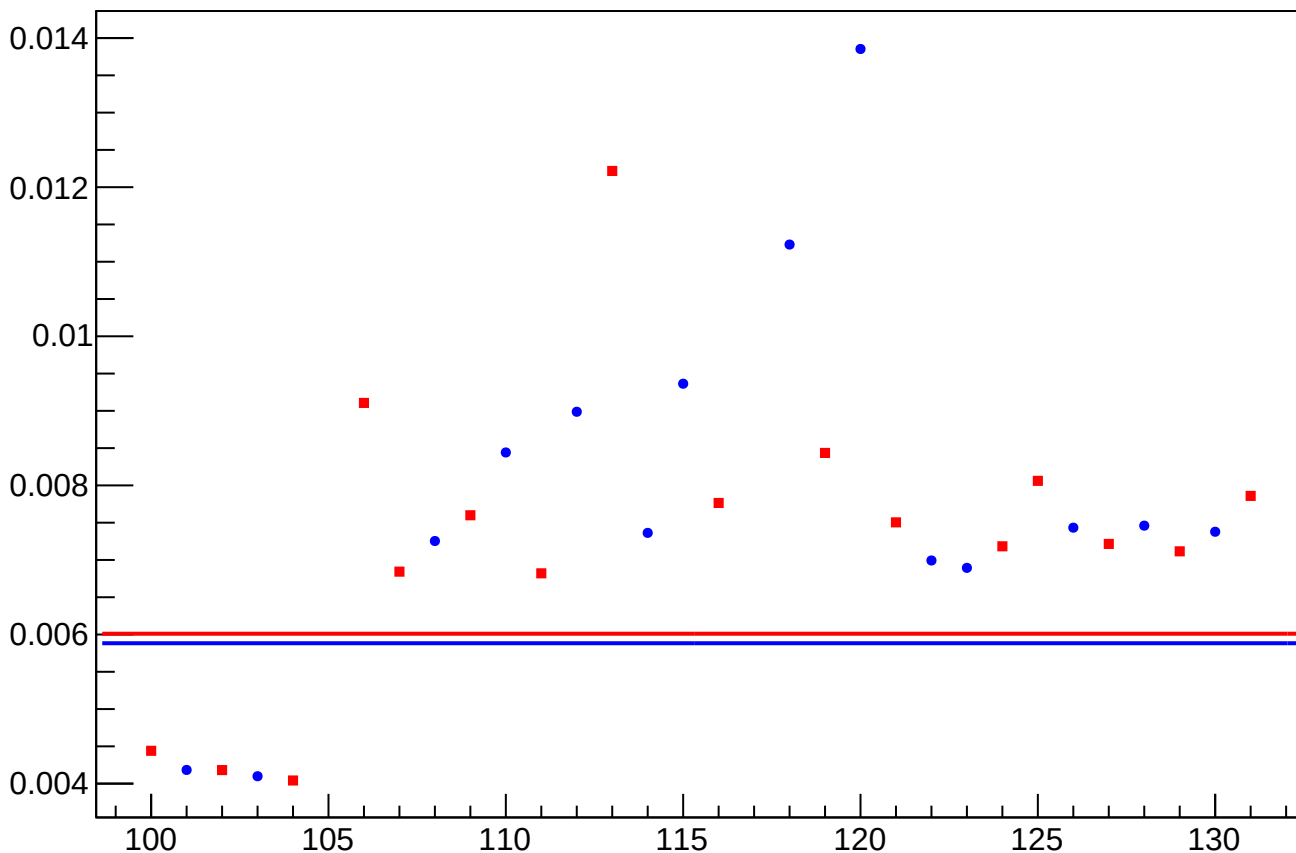
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.795+/-0.000  $\chi^2/\text{NDF}$ : 40996270445.3/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l05X\_rms vs Slug



Right In: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1084634.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 955807.8/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

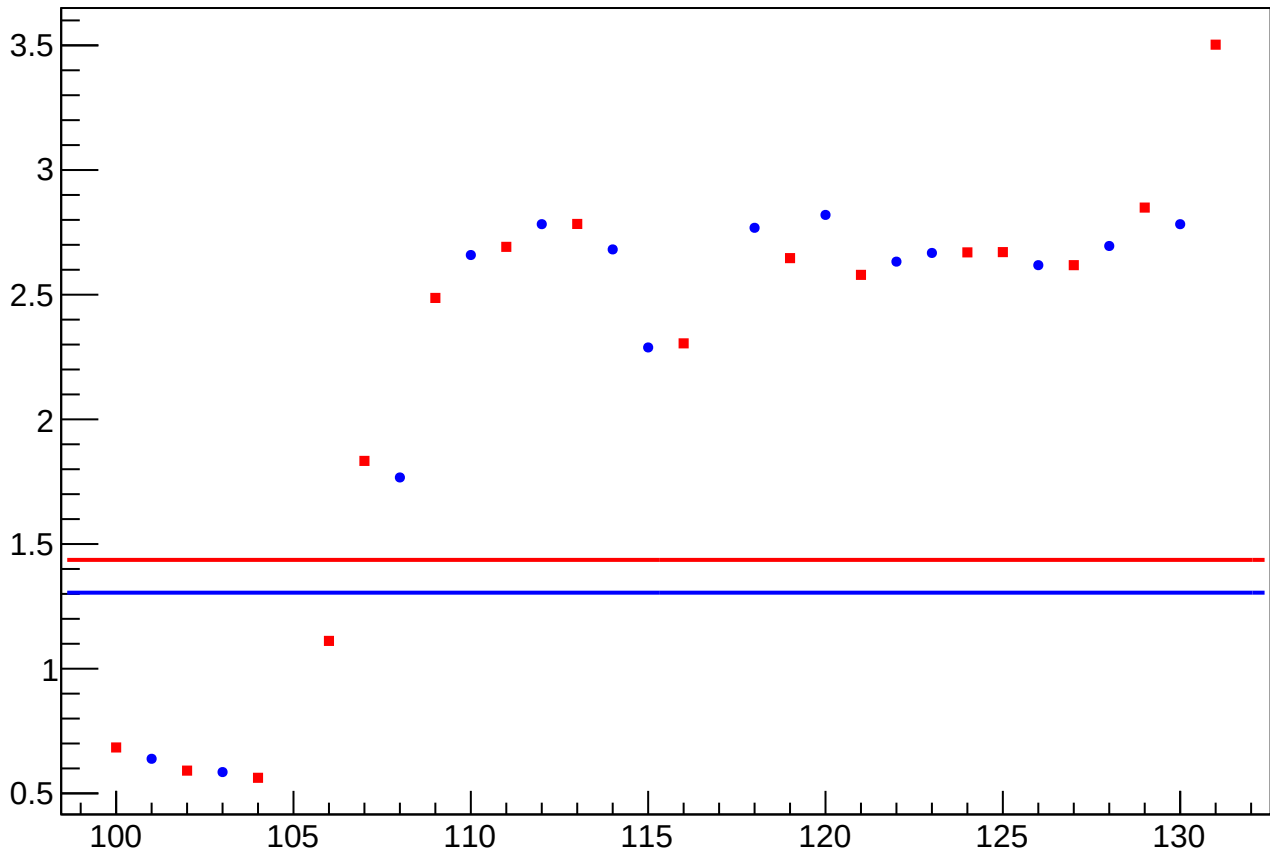
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 2042491.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l05Y\_mean vs Slug



Right In: 1.305+/-0.000  $\chi^2/\text{NDF}$ : 113025094269.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 1.436+/-0.000  $\chi^2/\text{NDF}$ : 142608167775.8/15

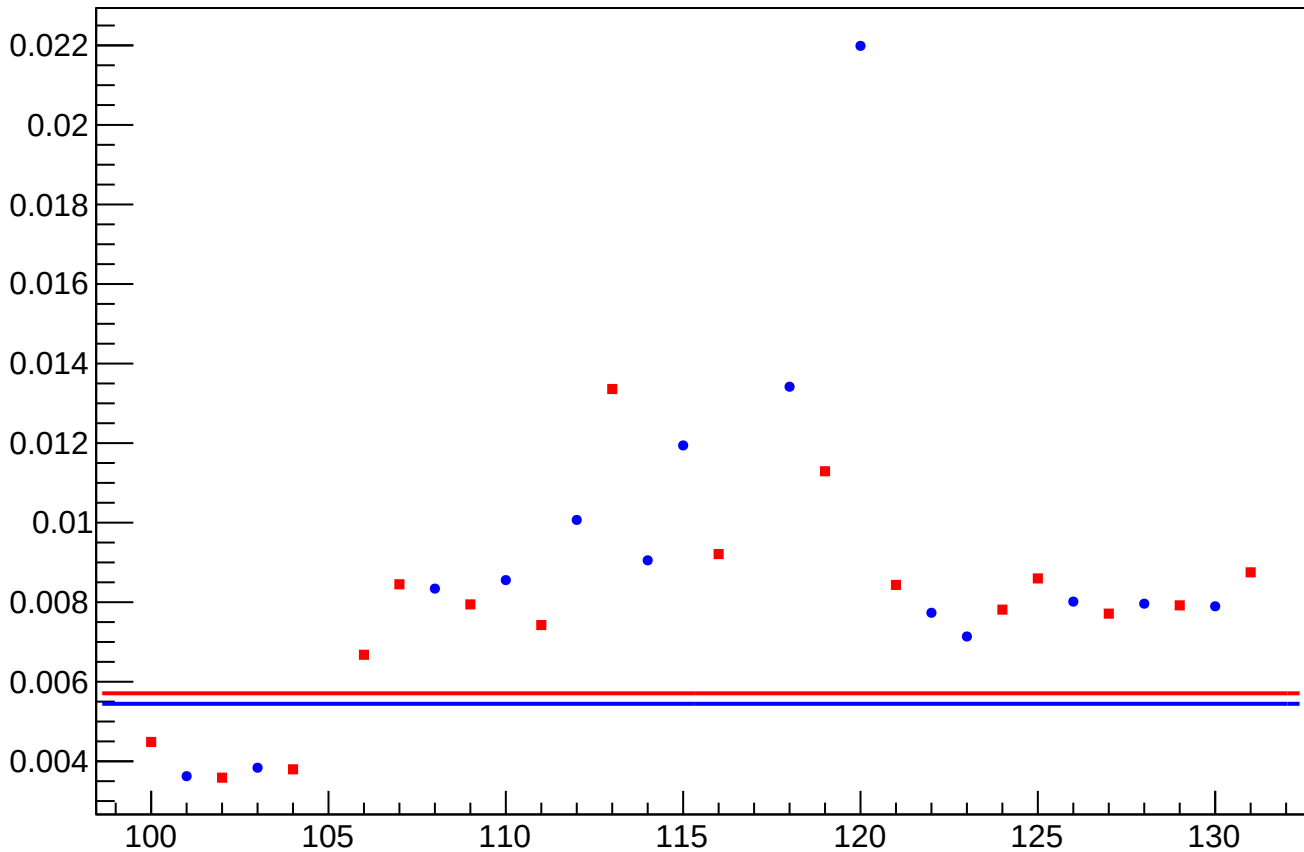
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 1.374+/-0.000  $\chi^2/\text{NDF}$ : 256747200116.4

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l05Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 1684732.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 1564366.2/15

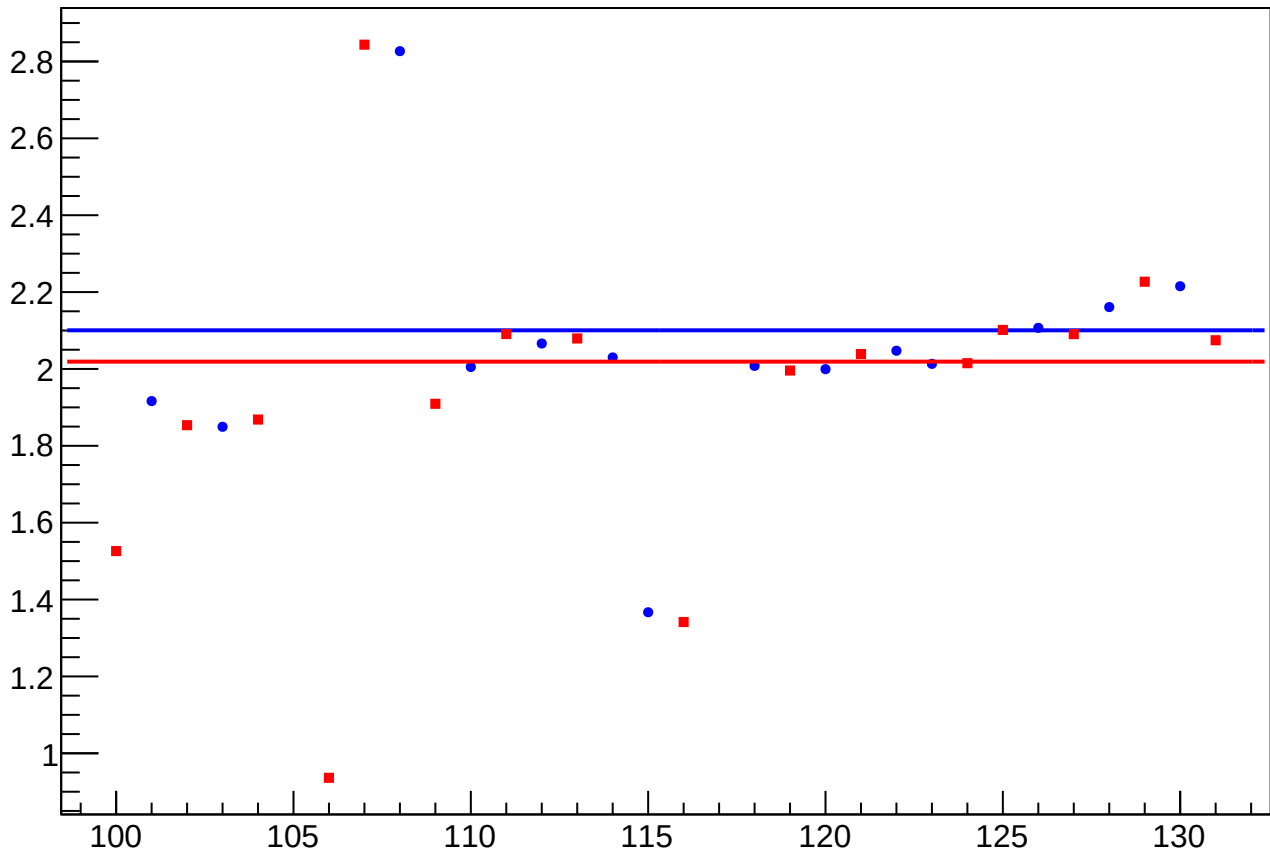
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.006+/-0.000  $\chi^2/\text{NDF}$ : 3258047.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06X\_mean vs Slug



Right In: 2.101+/-0.000  $\chi^2/\text{NDF}$ : 7683190069.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 2.019+/-0.000  $\chi^2/\text{NDF}$ : 15756694317.0/15

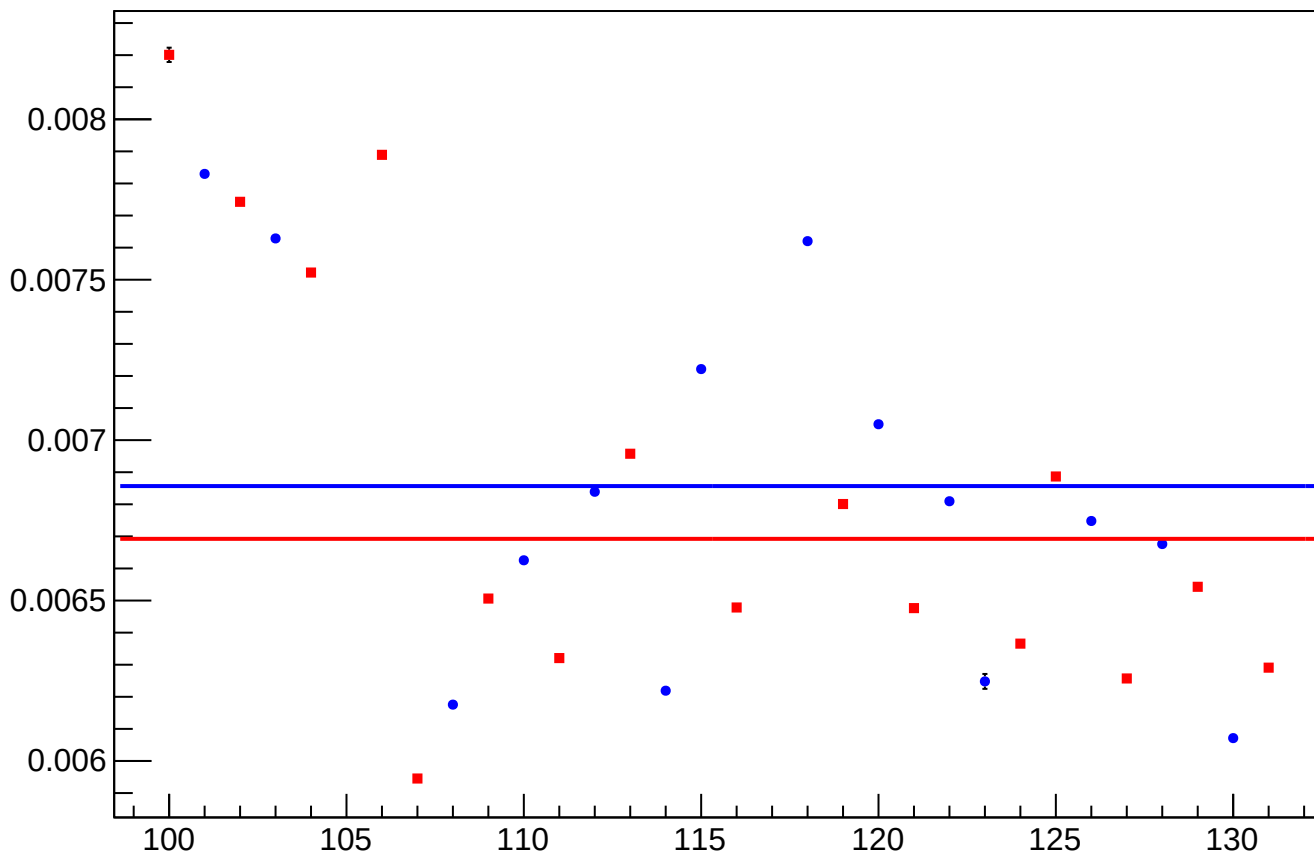
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 2.056+/-0.000  $\chi^2/\text{NDF}$ : 23824171963.6/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06X\_rms vs Slug



Right In: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 69236.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 73949.1/15

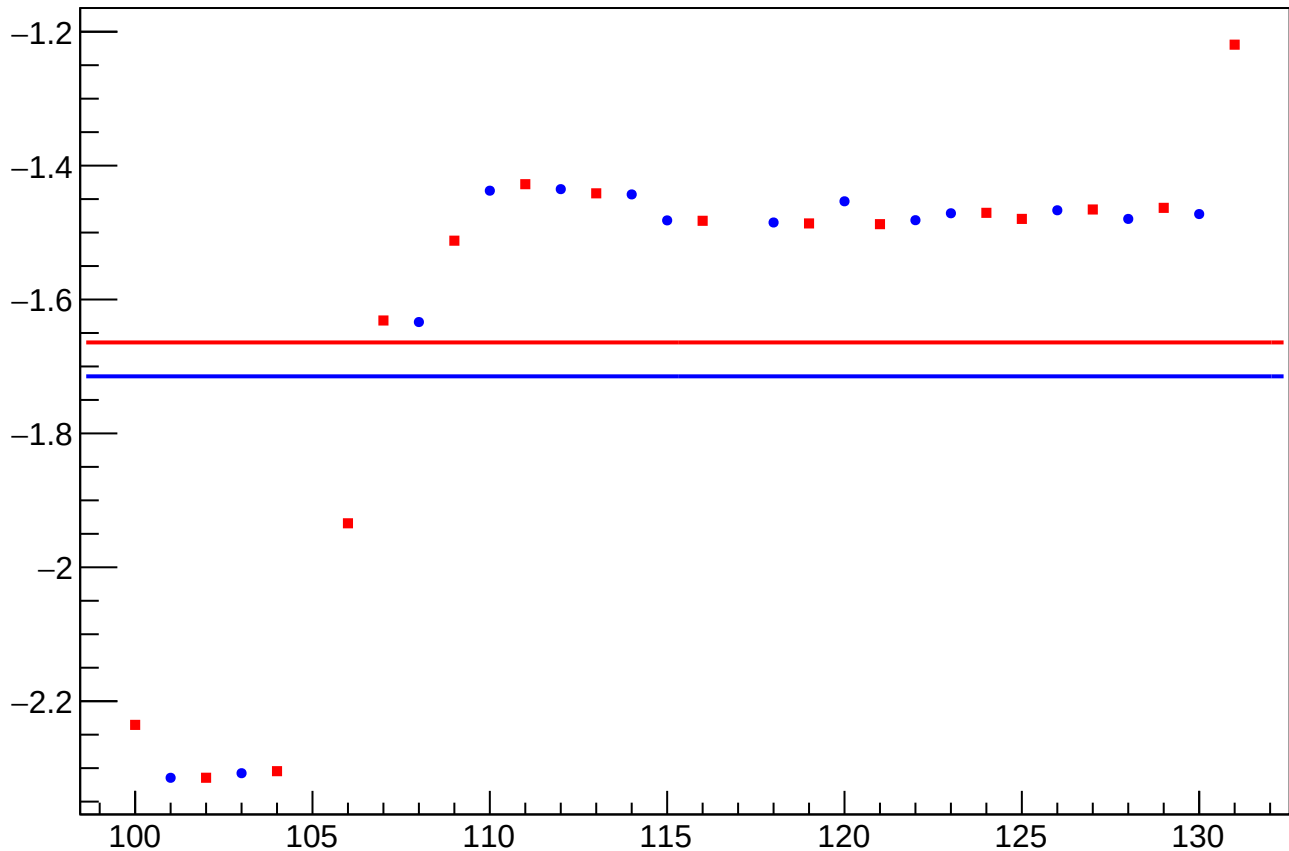
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.007+/-0.000  $\chi^2/\text{NDF}$ : 146316.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06Y\_mean vs Slug



Right In: -1.715+/-0.000  $\chi^2/\text{NDF}$ : 96308288709.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -1.664+/-0.000  $\chi^2/\text{NDF}$ : 105490389157.8/15

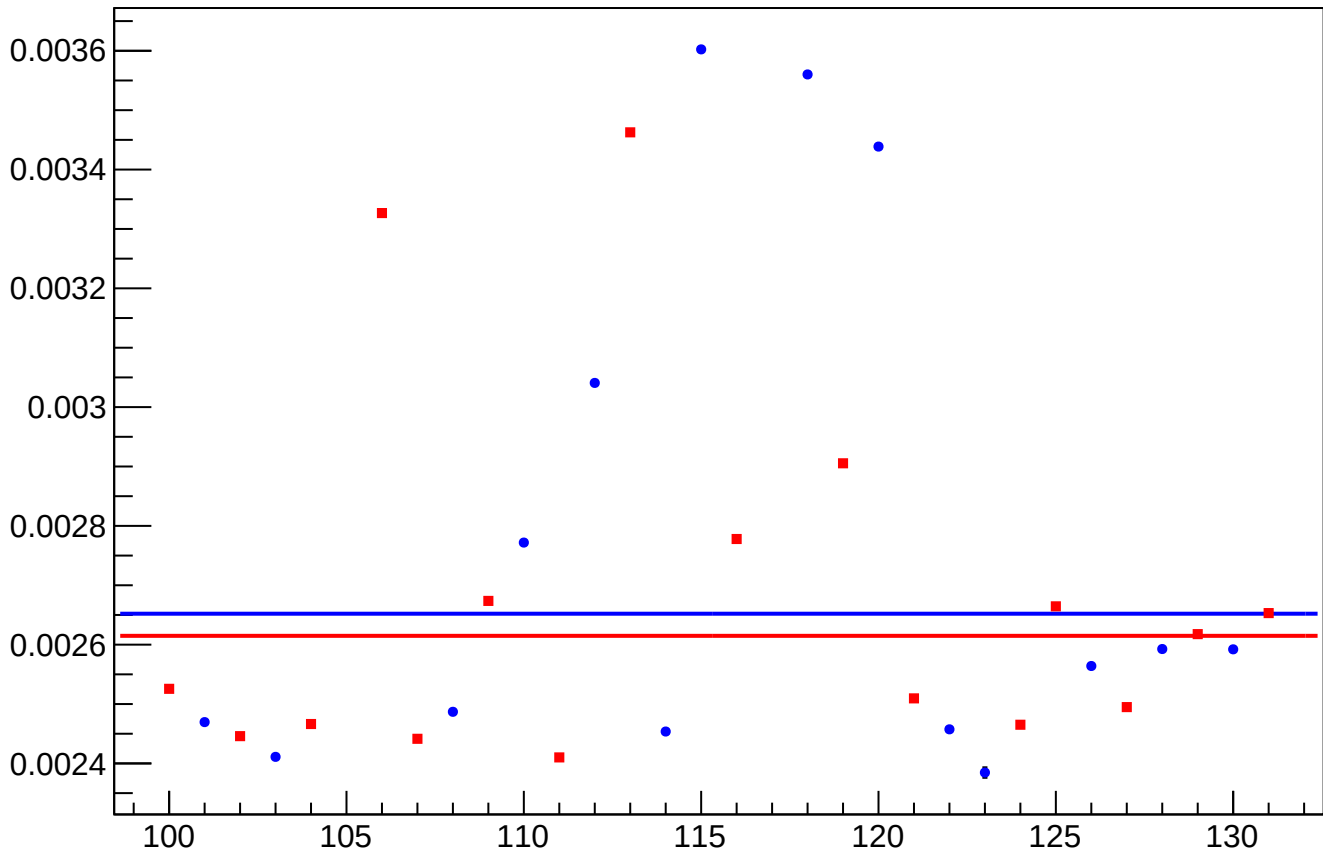
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.687+/-0.000  $\chi^2/\text{NDF}$ : 202763795960.2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l06Y\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 148681.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 102494.5/15

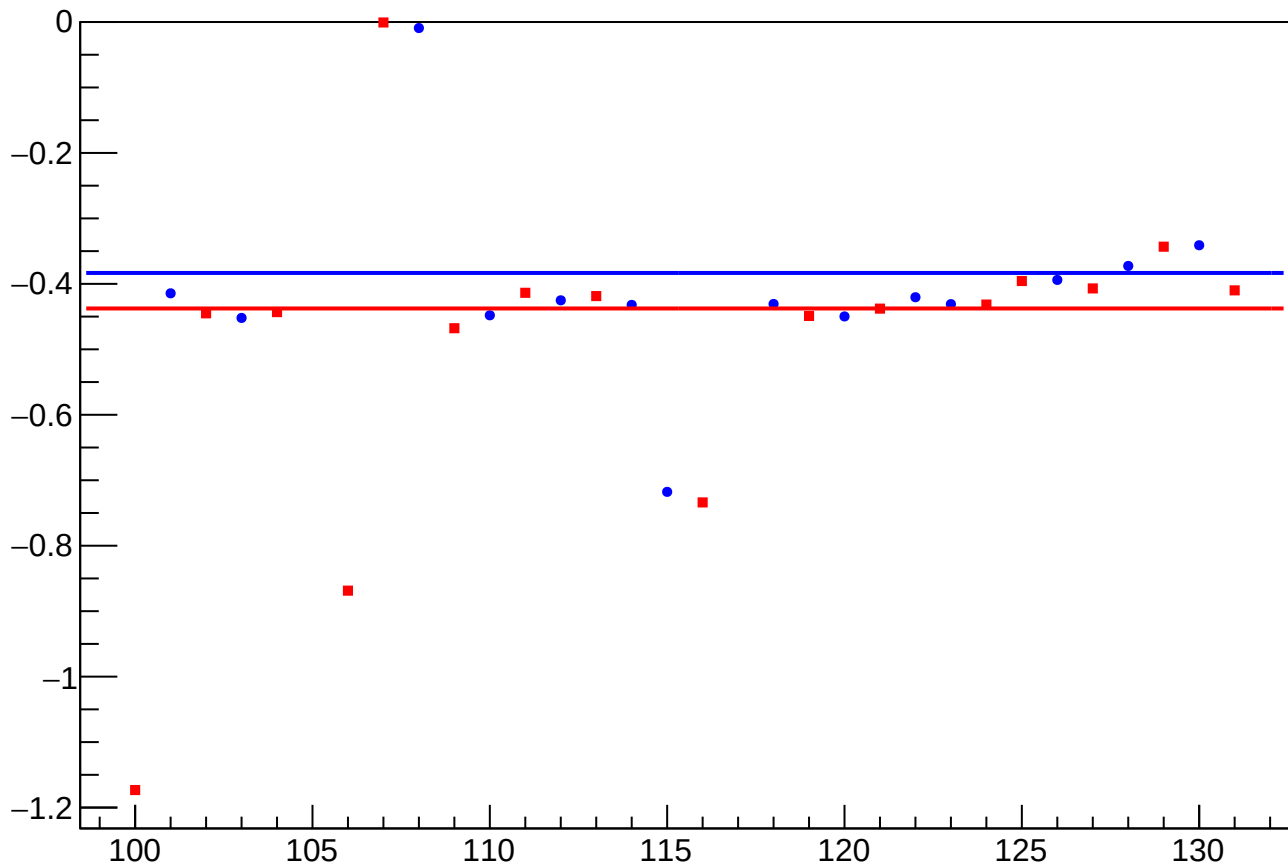
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 252220.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07X\_mean vs Slug



Right In: -0.383+/-0.000  $\chi^2/\text{NDF}$ : 667869874.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.438+/-0.000  $\chi^2/\text{NDF}$ : 1661604948.6/15

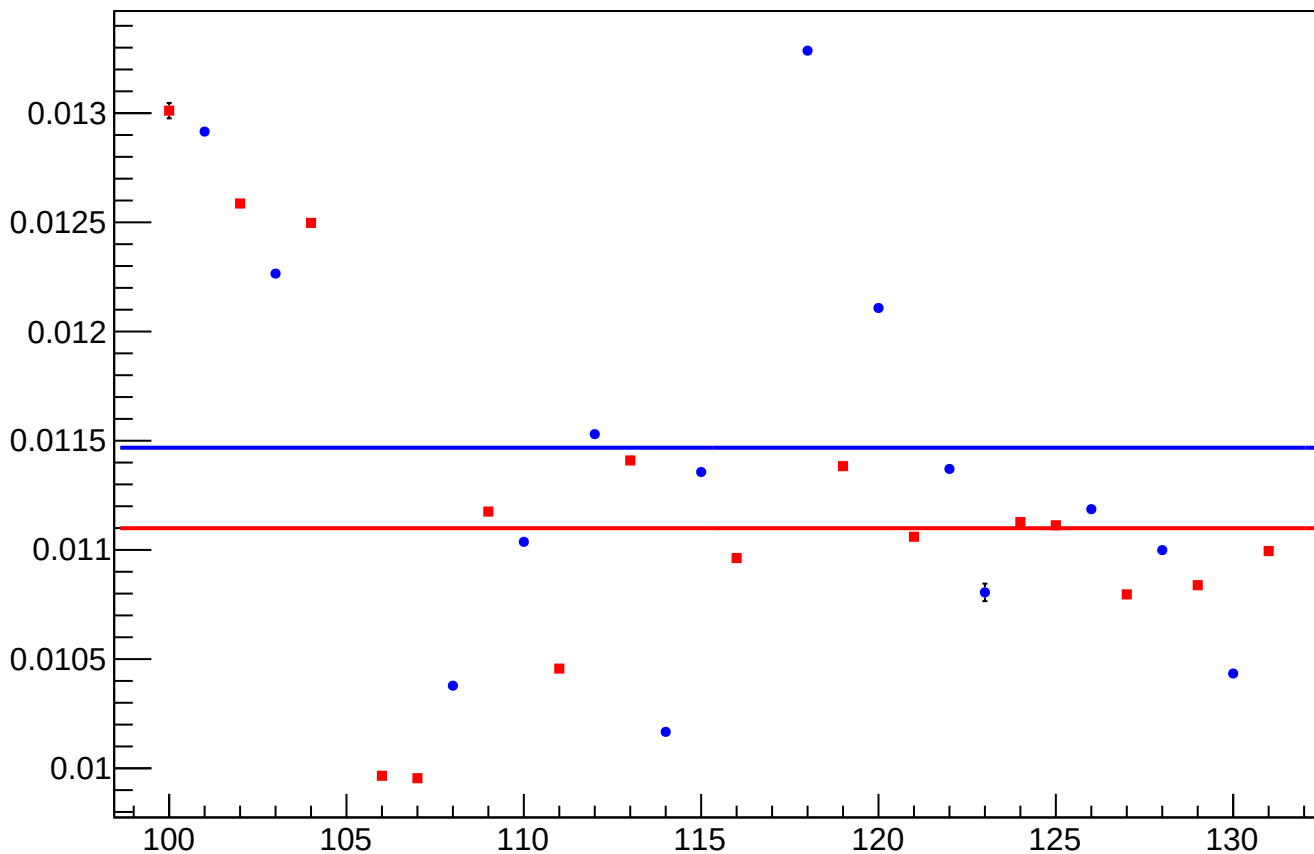
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.413+/-0.000  $\chi^2/\text{NDF}$ : 2392399659.5/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07X\_rms vs Slug



Right In: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 63695.7/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 52412.6/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

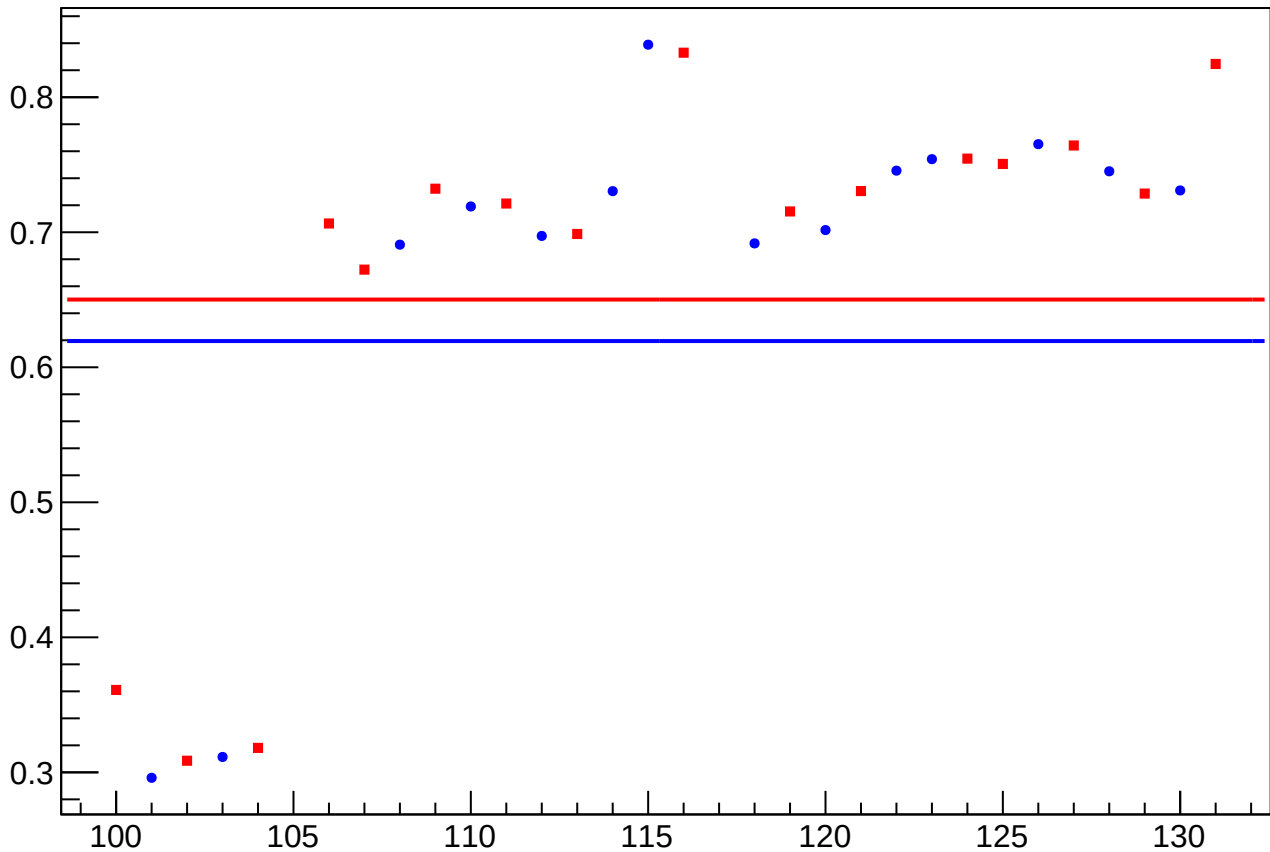
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 121912.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0l07Y\_mean vs Slug



Right In: 0.619+/-0.000  $\chi^2/\text{NDF}$ : 26951072622.3/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: 0.650+/-0.000  $\chi^2/\text{NDF}$ : 27376808816.8/15

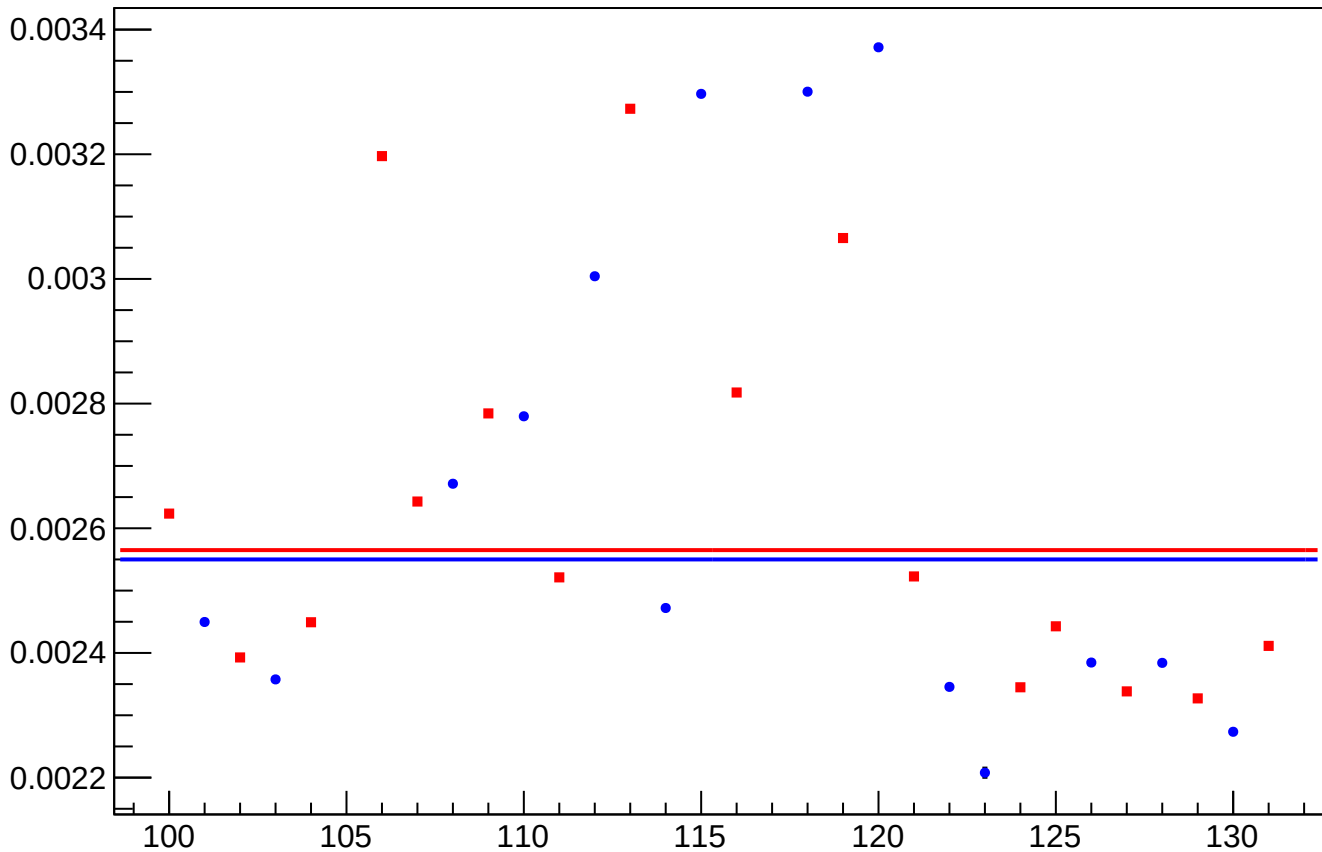
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.636+/-0.000  $\chi^2/\text{NDF}$ : 54708282819.7/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l07Y\_rms vs Slug



Right In: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 161681.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 120593.1/15

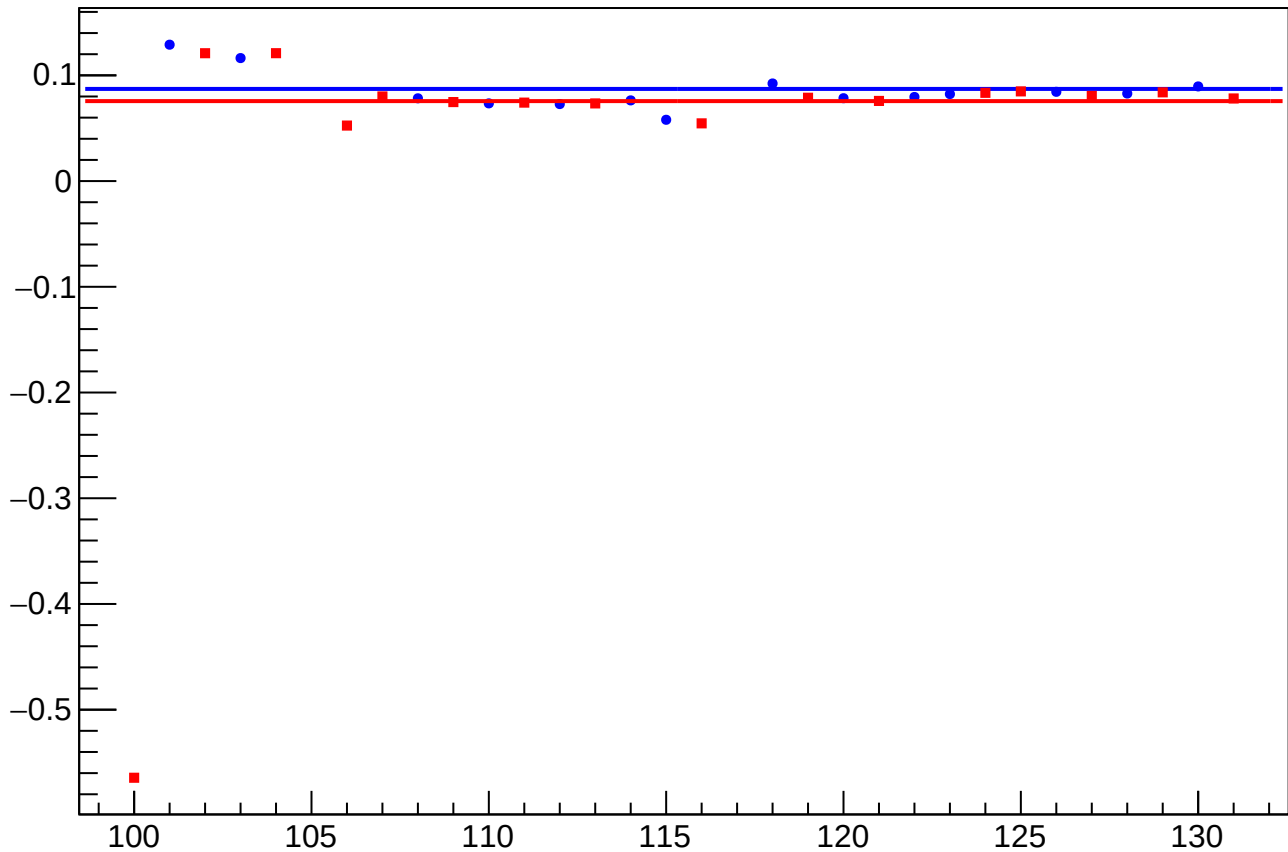
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.003+/-0.000  $\chi^2/\text{NDF}$ : 282454.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08X\_mean vs Slug



Right In: 0.087 $\pm$ 0.000  $\chi^2$ /NDF: 15020313.7/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.076 $\pm$ 0.000  $\chi^2$ /NDF: 221915466.0/15

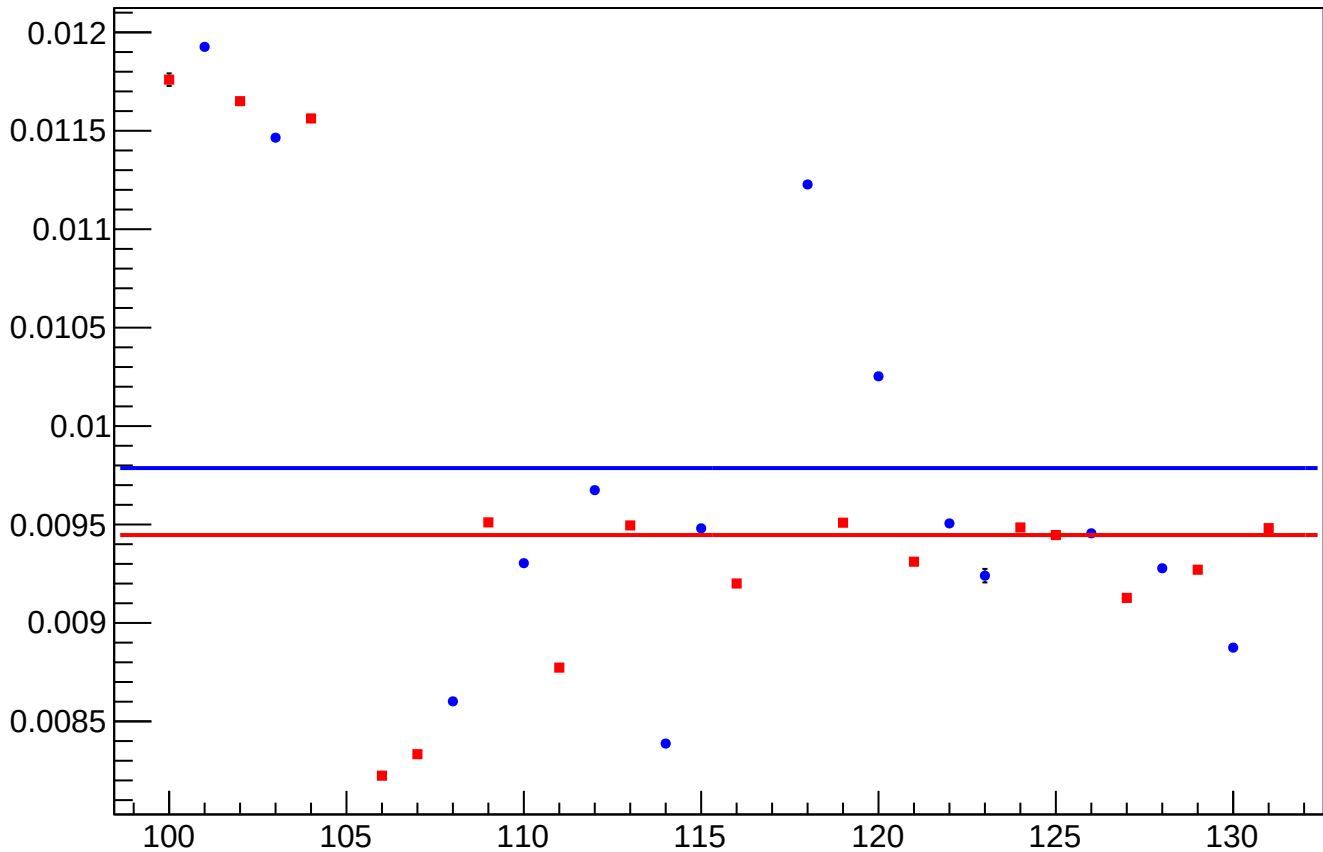
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.081 $\pm$ 0.000  $\chi^2$ /NDF: 240823181.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0l08X\_rms vs Slug



Right In: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 115065.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.009+/-0.000  $\chi^2/\text{NDF}$ : 107810.6/15

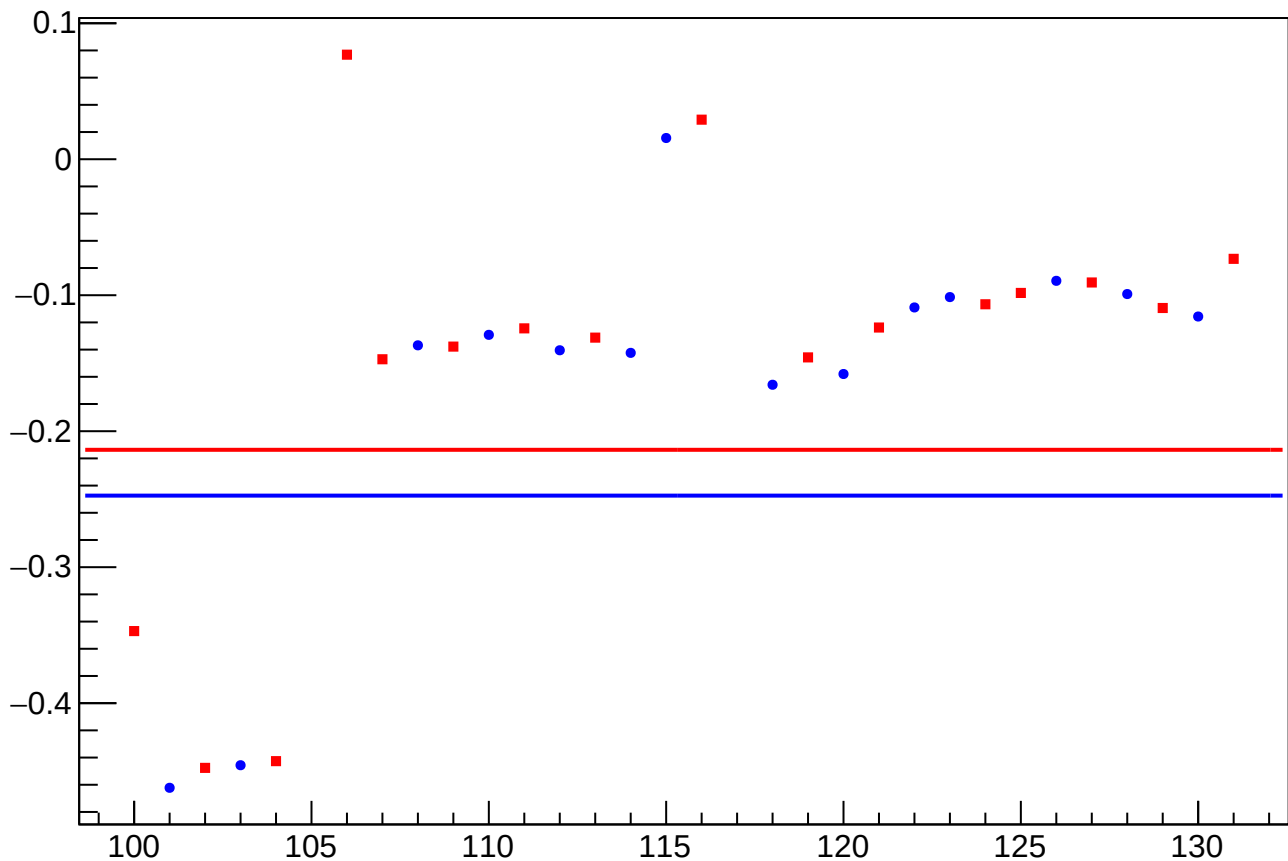
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.010+/-0.000  $\chi^2/\text{NDF}$ : 229637.6/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08Y\_mean vs Slug



Right In:  $-0.247 \pm 0.000$   $\chi^2/\text{NDF}$ : 6243190386.0/13

Left Out:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

Right Out:  $-0.214 \pm 0.000$   $\chi^2/\text{NDF}$ : 6771170099.6/15

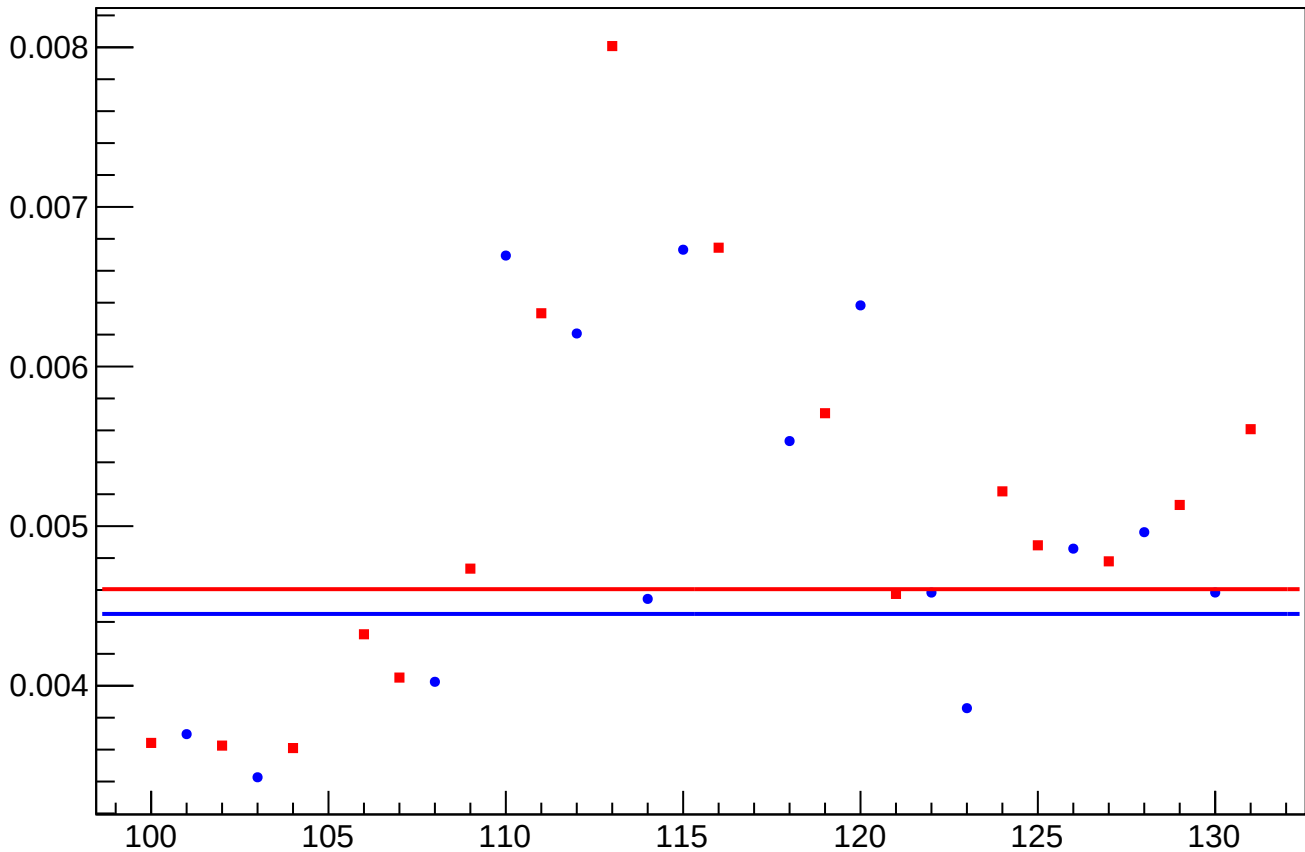
Left In:  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

+ sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

All:  $-0.230 \pm 0.000$   $\chi^2/\text{NDF}$ : 13151505607.0/13

- sign  $0.000 \pm 0.000$   $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l08Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 426856.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 498816.5/15

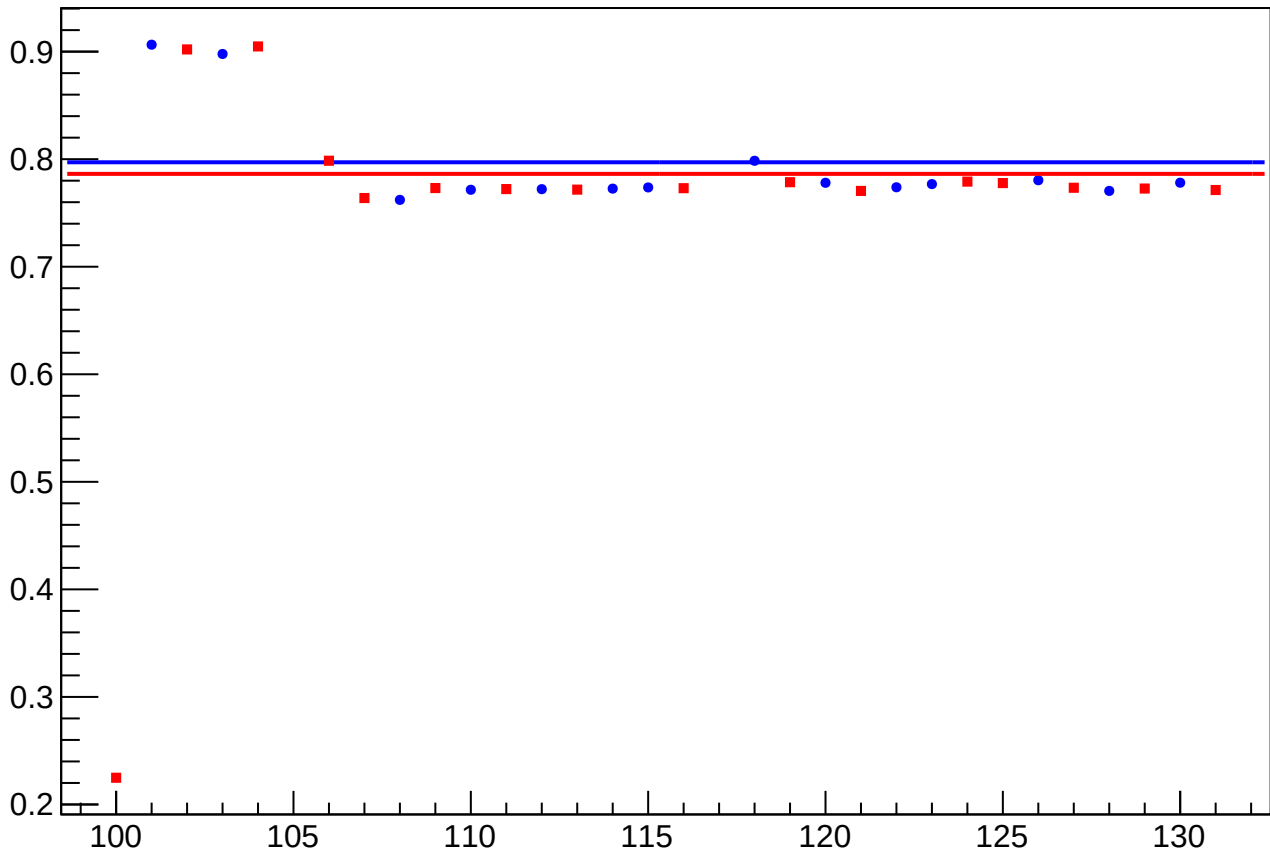
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 931492.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l09X\_mean vs Slug



Right In: 0.797 $\pm$ 0.000  $\chi^2$ /NDF: 98844476.2/13

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

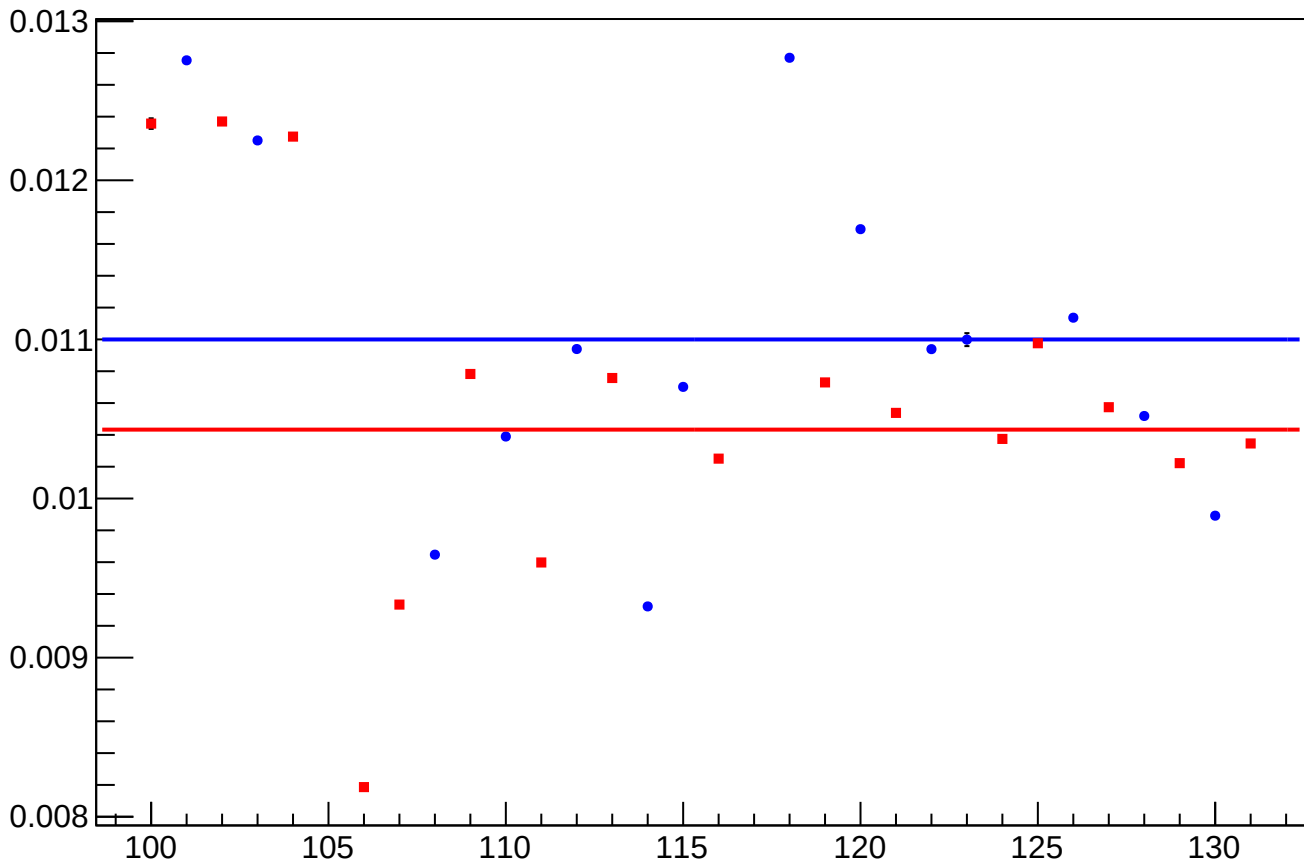
Right Out: 0.786 $\pm$ 0.000  $\chi^2$ /NDF: 240989979.8/15

All: 0.791 $\pm$ 0.000  $\chi^2$ /NDF: 342563559.9/29

- 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\_bpm0l09X\_rms vs Slug



Right In: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 92274.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.010 $\pm$ 0.000  $\chi^2$ /NDF: 116028.8/15

Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

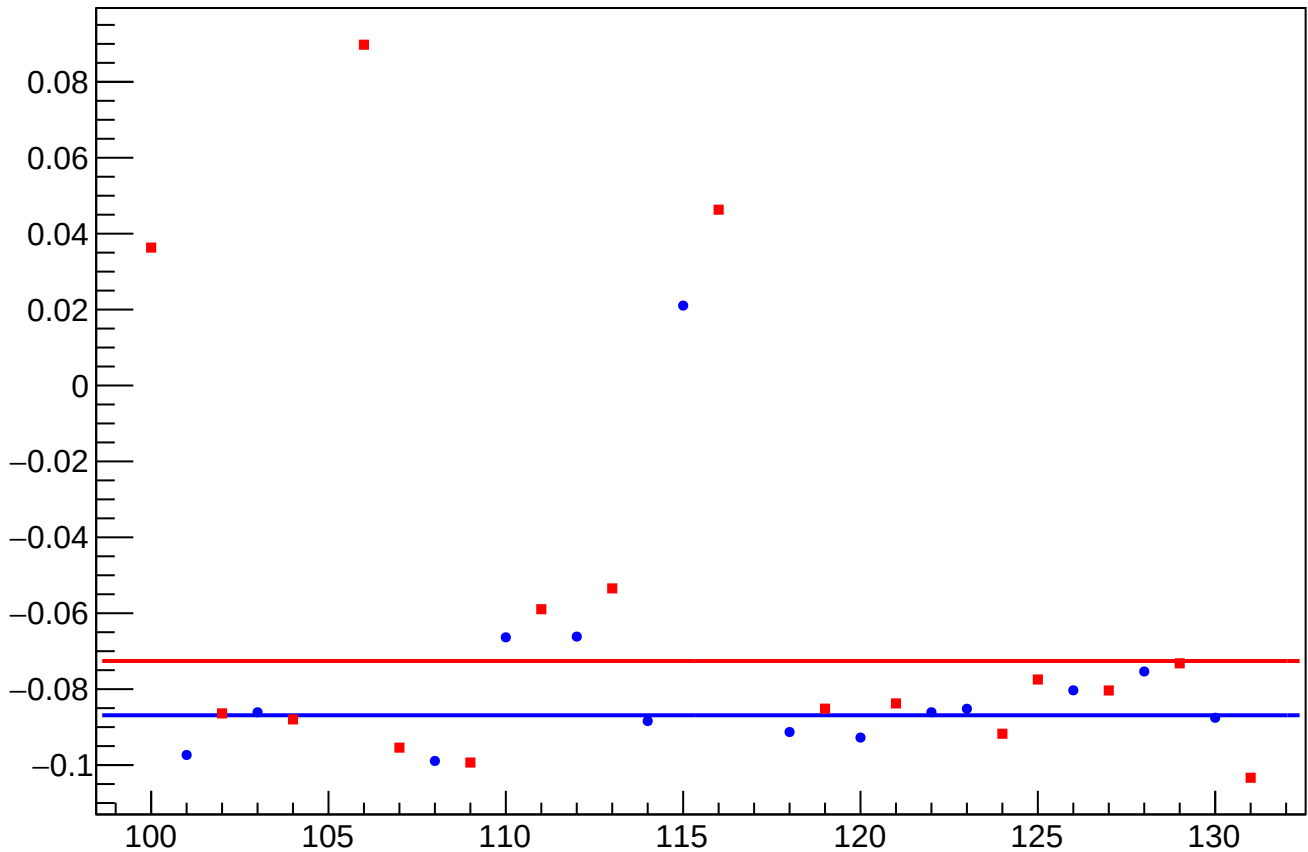
+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.011 $\pm$ 0.000  $\chi^2$ /NDF: 223399.1/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0



# yield\_bpm0l09Y\_mean vs Slug



Right In: -0.087+/-0.000  $\chi^2/\text{NDF}$ : 38252432.9/13

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

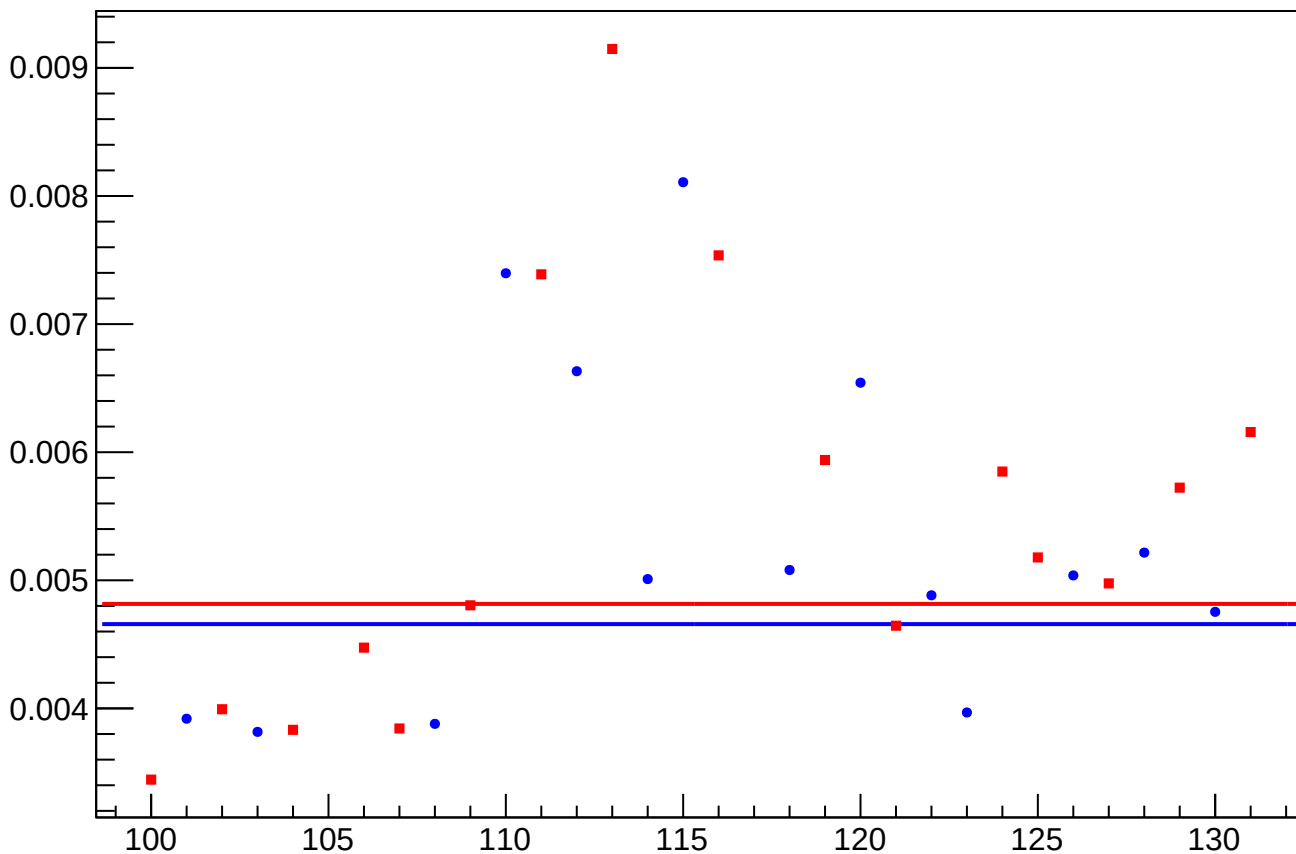
Right Out: -0.073+/-0.000  $\chi^2/\text{NDF}$ : 435770977.8/15

All: -0.080+/-0.000  $\chi^2/\text{NDF}$ : 495762626.6/29

- 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\_bpm0l09Y\_rms vs Slug



Right In: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 392925.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 598845.7/15

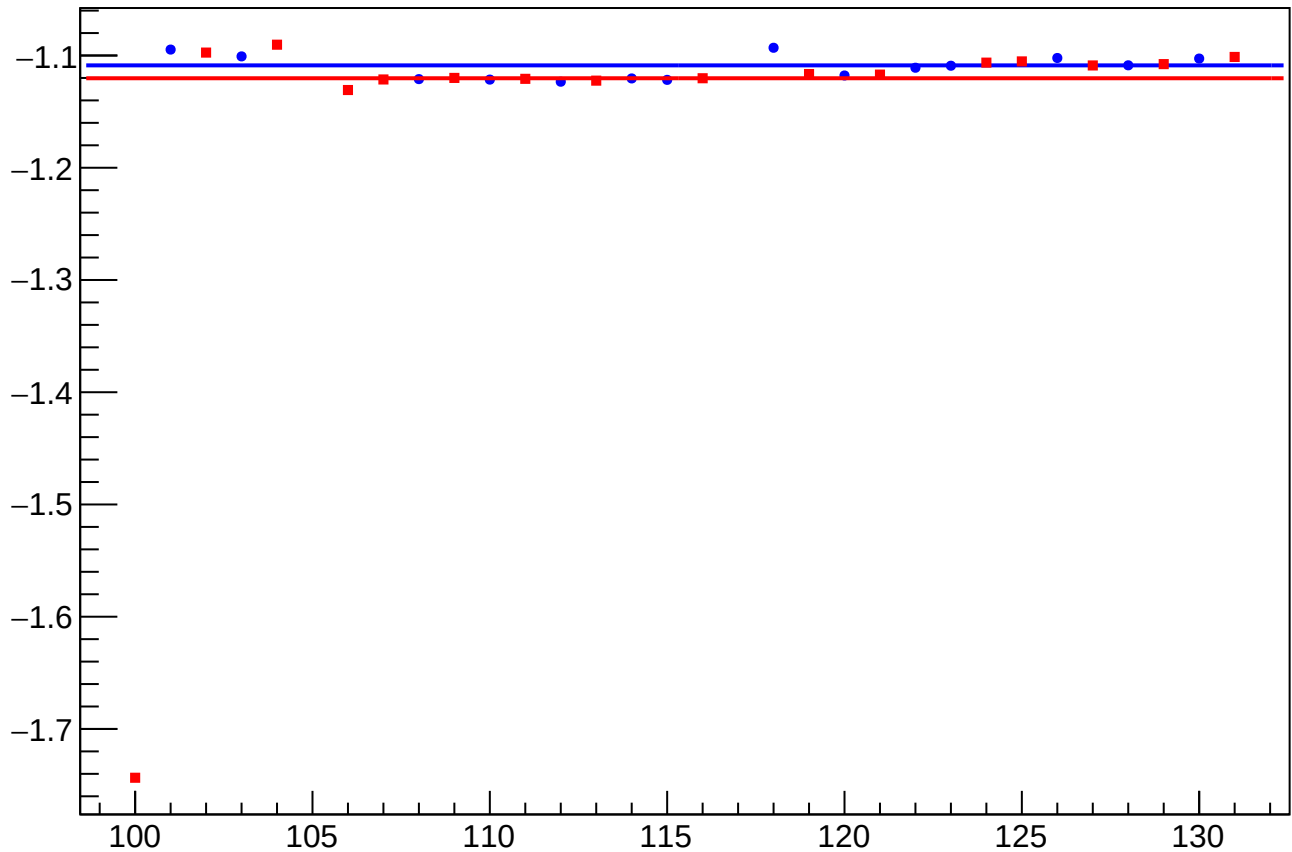
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.005+/-0.000  $\chi^2/\text{NDF}$ : 997057.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10X\_mean vs Slug



Right In: -1.109+/-0.000  $\chi^2/\text{NDF}$ : 3864084.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.120+/-0.000  $\chi^2/\text{NDF}$ : 208112902.8/15

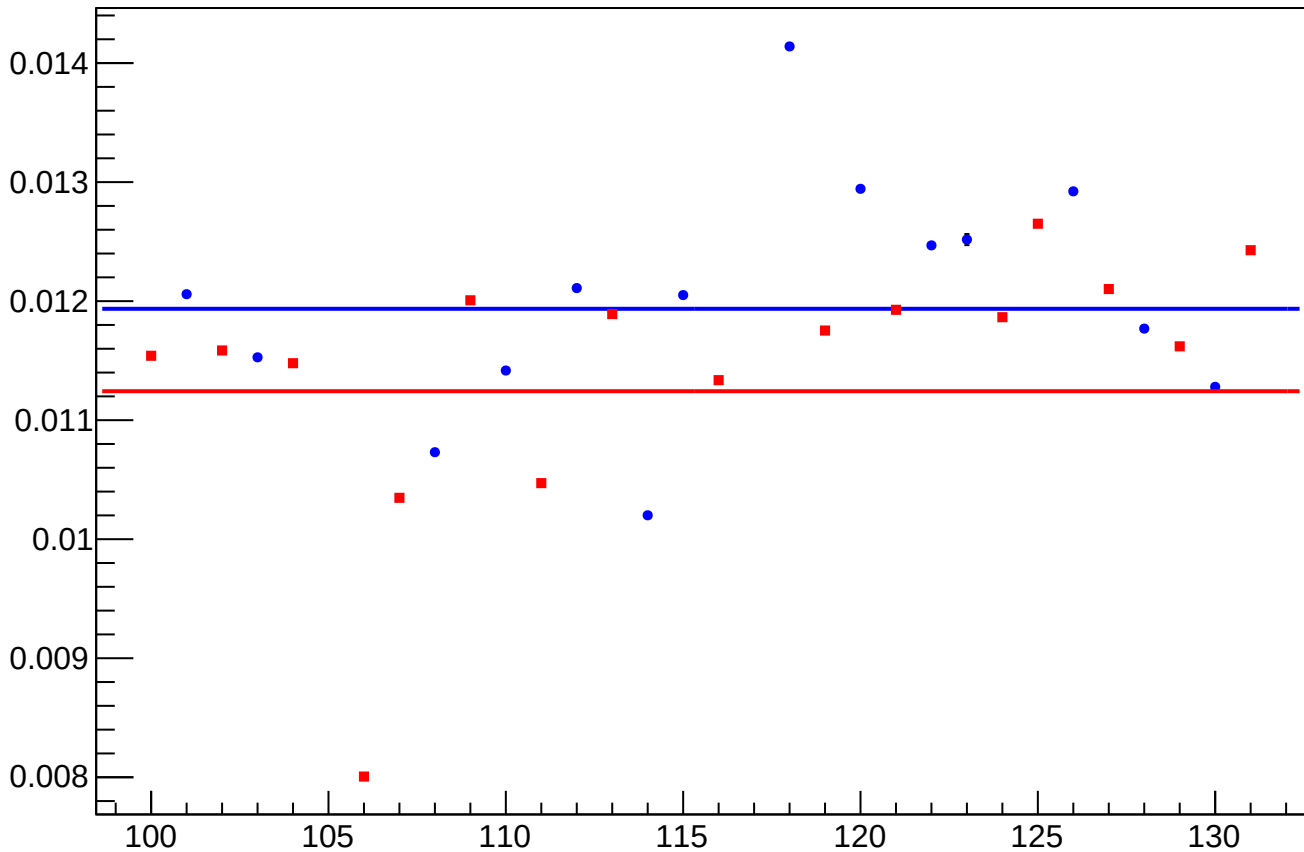
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.115+/-0.000  $\chi^2/\text{NDF}$ : 214614732.7/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10X\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 54353.1/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.011+/-0.000  $\chi^2/\text{NDF}$ : 138757.1/15

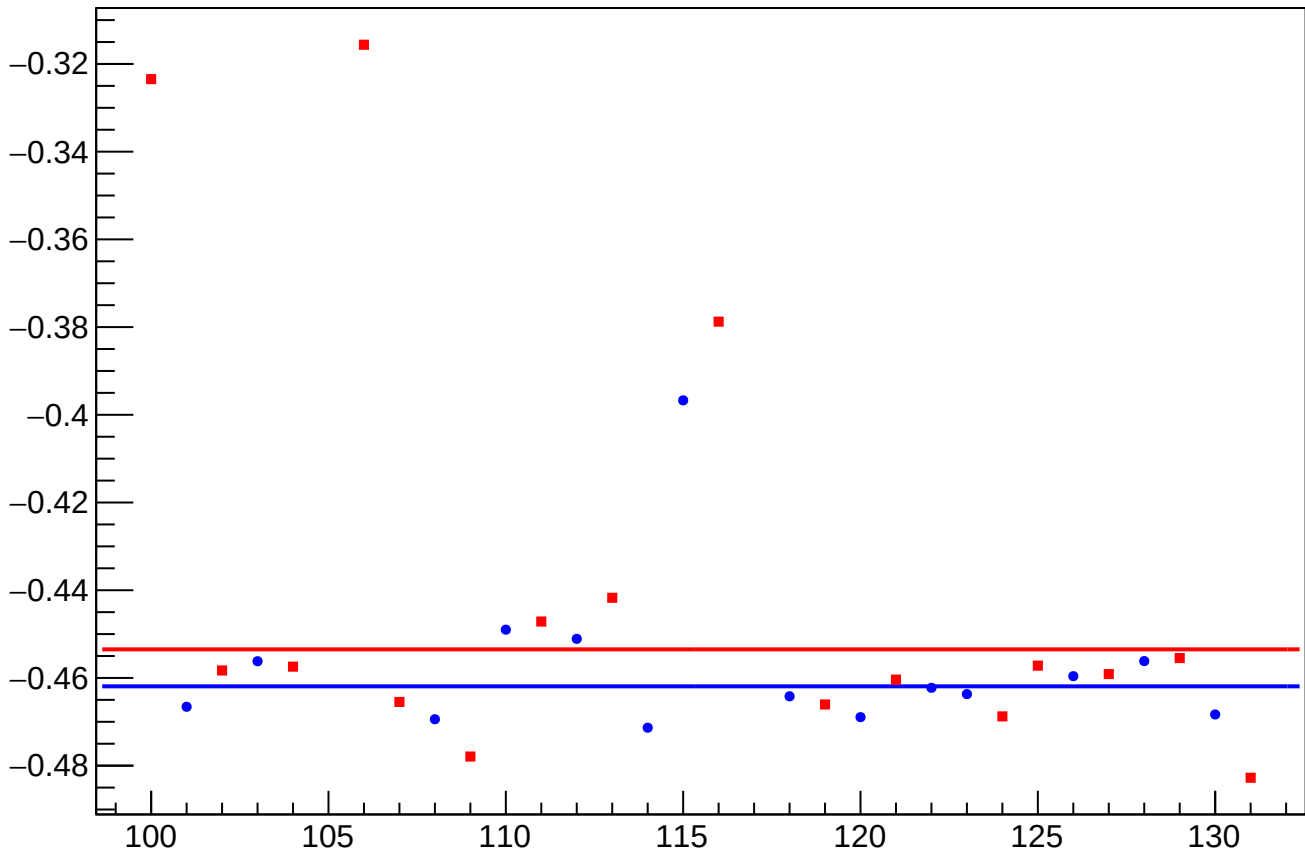
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 212309.4/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10Y\_mean vs Slug



Right In: -0.462+/-0.000  $\chi^2/\text{NDF}$ : 23654851.5/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -0.453+/-0.000  $\chi^2/\text{NDF}$ : 363666497.7/15

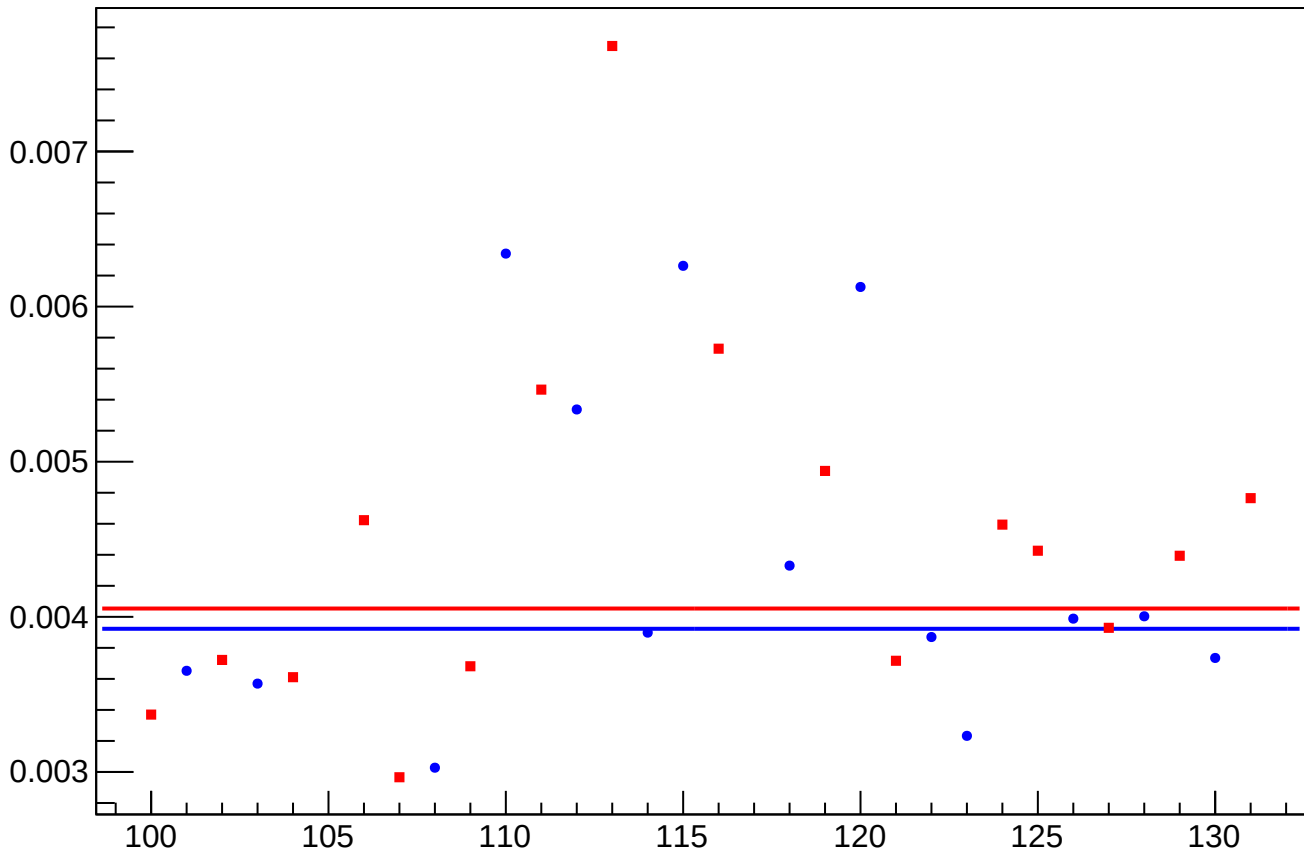
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.458+/-0.000  $\chi^2/\text{NDF}$ : 398027487.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0l10Y\_rms vs Slug



Right In: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 346198.2/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 466450.5/15

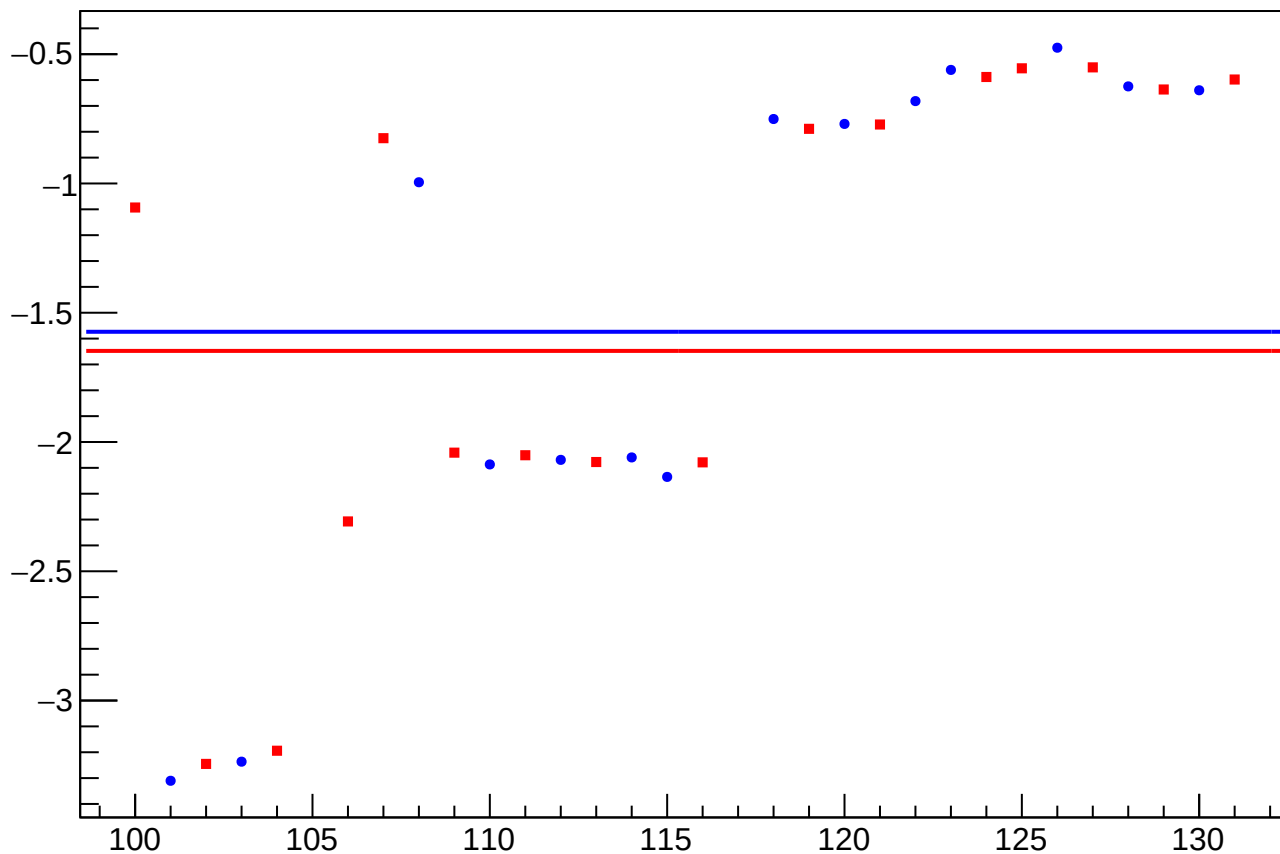
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.004+/-0.000  $\chi^2/\text{NDF}$ : 817783.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03X\_mean vs Slug



Right In: -1.574+/-0.000  $\chi^2/\text{NDF}$ : 1148283940.9/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: -1.648+/-0.000  $\chi^2/\text{NDF}$ : 1053237721.2/15

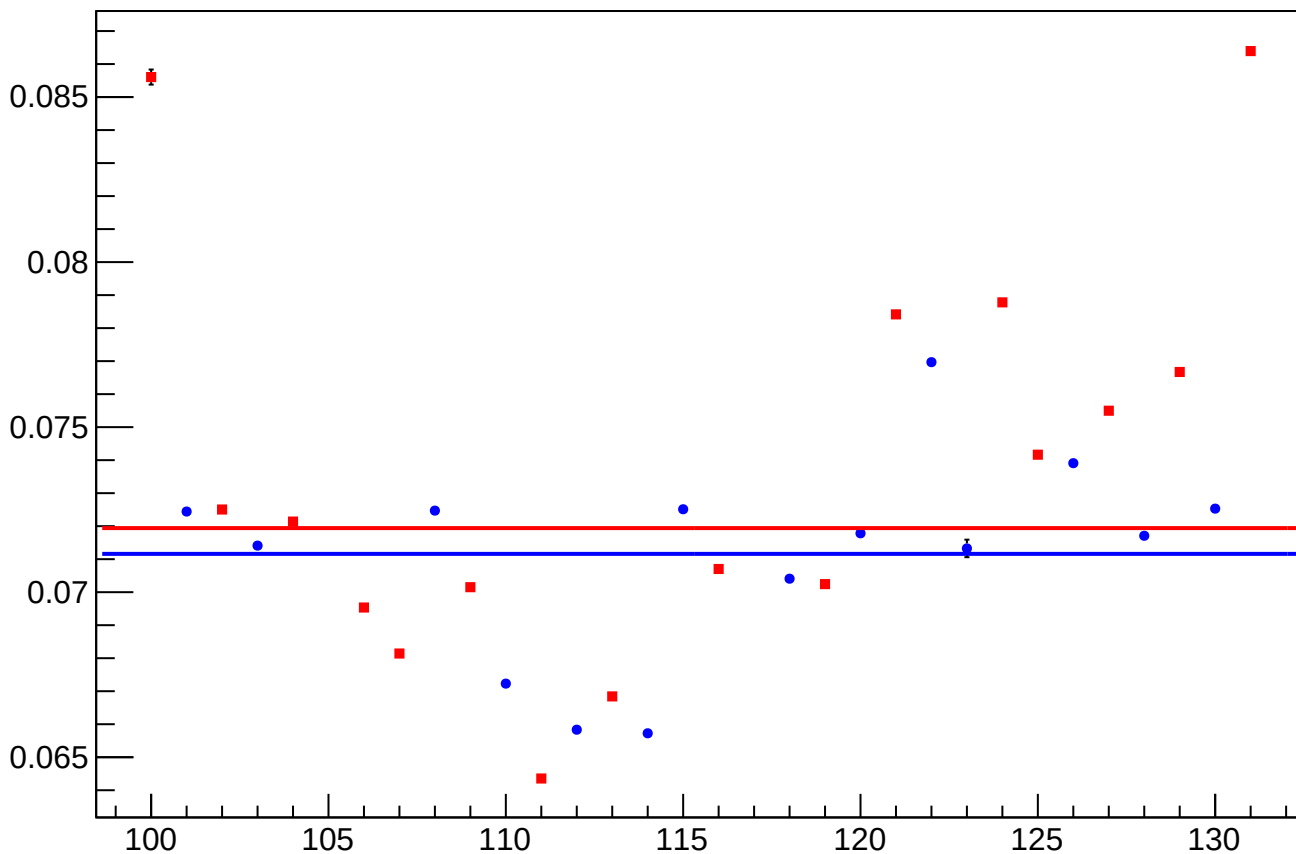
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -1.612+/-0.000  $\chi^2/\text{NDF}$ : 2204476543.4/2

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r03X\_rms vs Slug



Right In: 0.071+/-0.000  $\chi^2/\text{NDF}$ : 17037.0/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.072+/-0.000  $\chi^2/\text{NDF}$ : 57387.7/15

Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

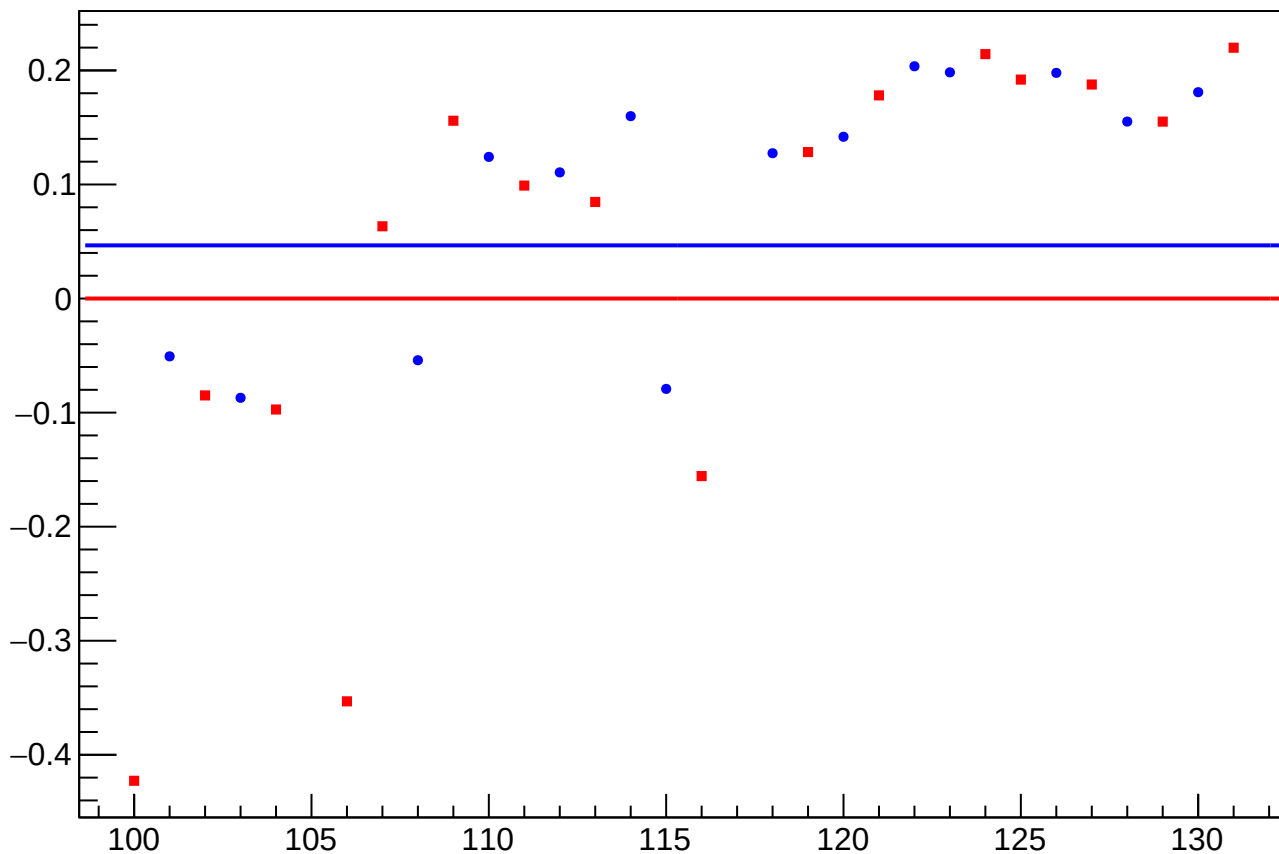
+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.072+/-0.000  $\chi^2/\text{NDF}$ : 75082.9/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0



# yield\_bpm0r03Y\_mean vs Slug



Right In: 0.047 $\pm$ 0.000  $\chi^2$ /NDF: 448656877.0/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

Right Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 1192180446.8/15

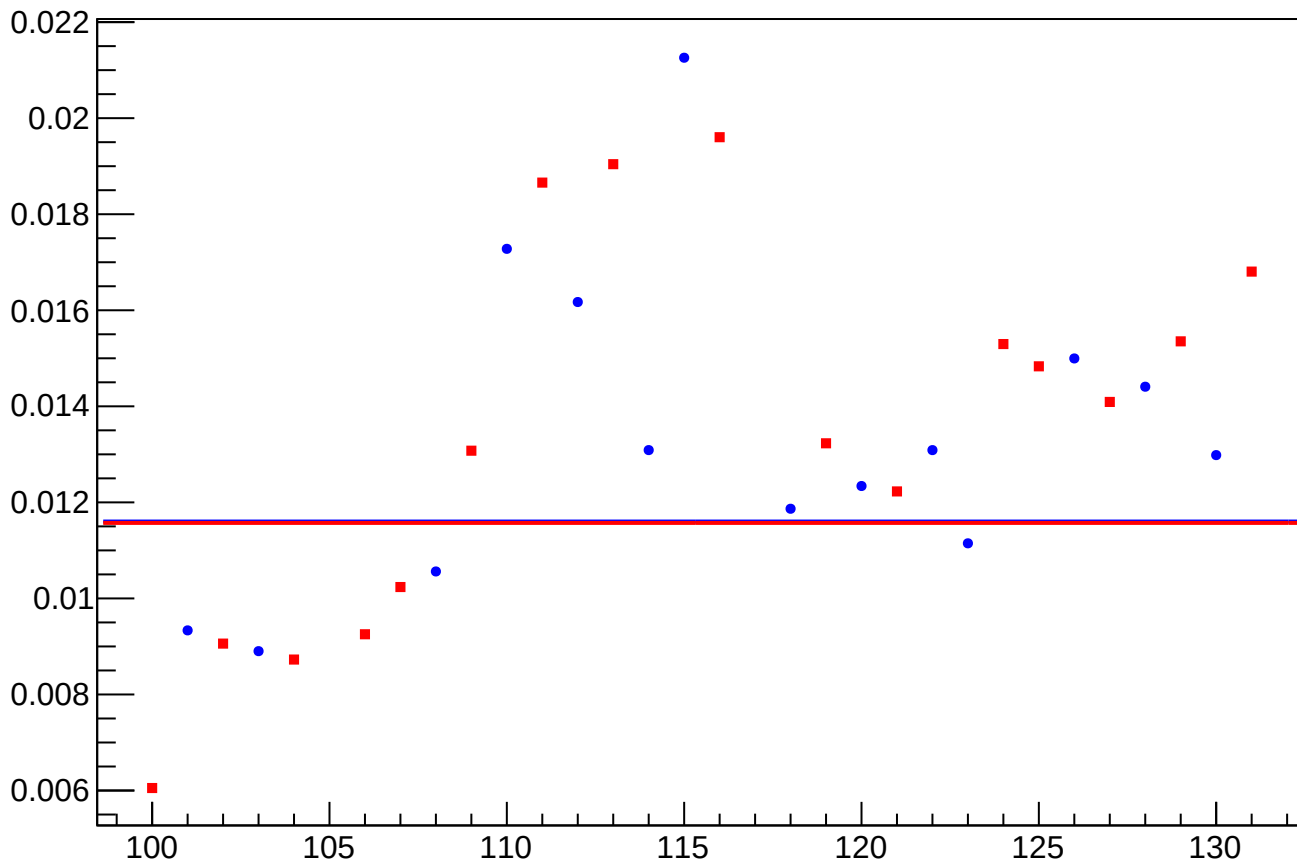
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 0.022 $\pm$ 0.000  $\chi^2$ /NDF: 1679476896.5/29

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# yield\_bpm0r03Y\_rms vs Slug



Right In: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 448437.4/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 844598.9/15

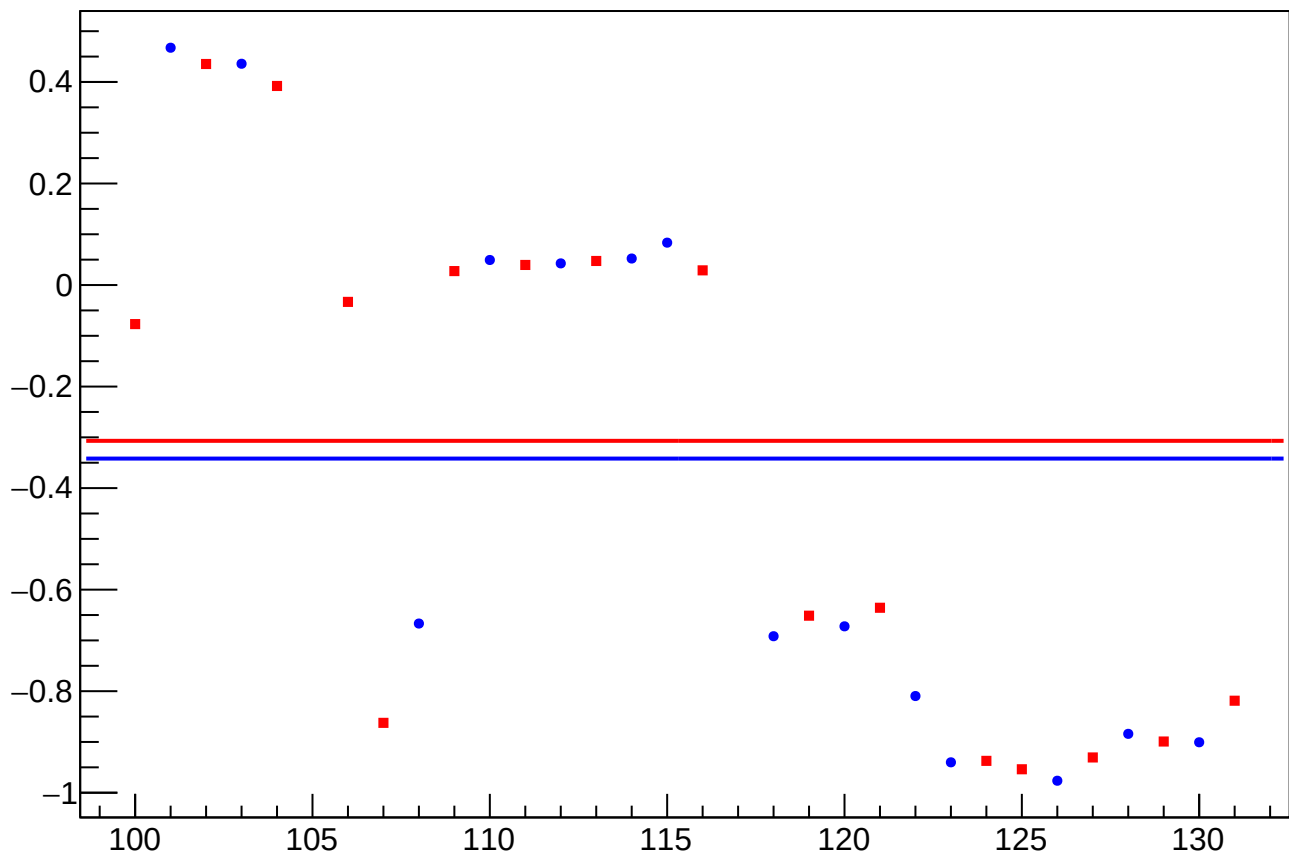
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.012+/-0.000  $\chi^2/\text{NDF}$ : 1293065.0/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05X\_mean vs Slug



Right In: -0.342+/-0.000  $\chi^2/\text{NDF}$ : 203219543.8/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

Right Out: -0.307+/-0.000  $\chi^2/\text{NDF}$ : 198644897.4/15

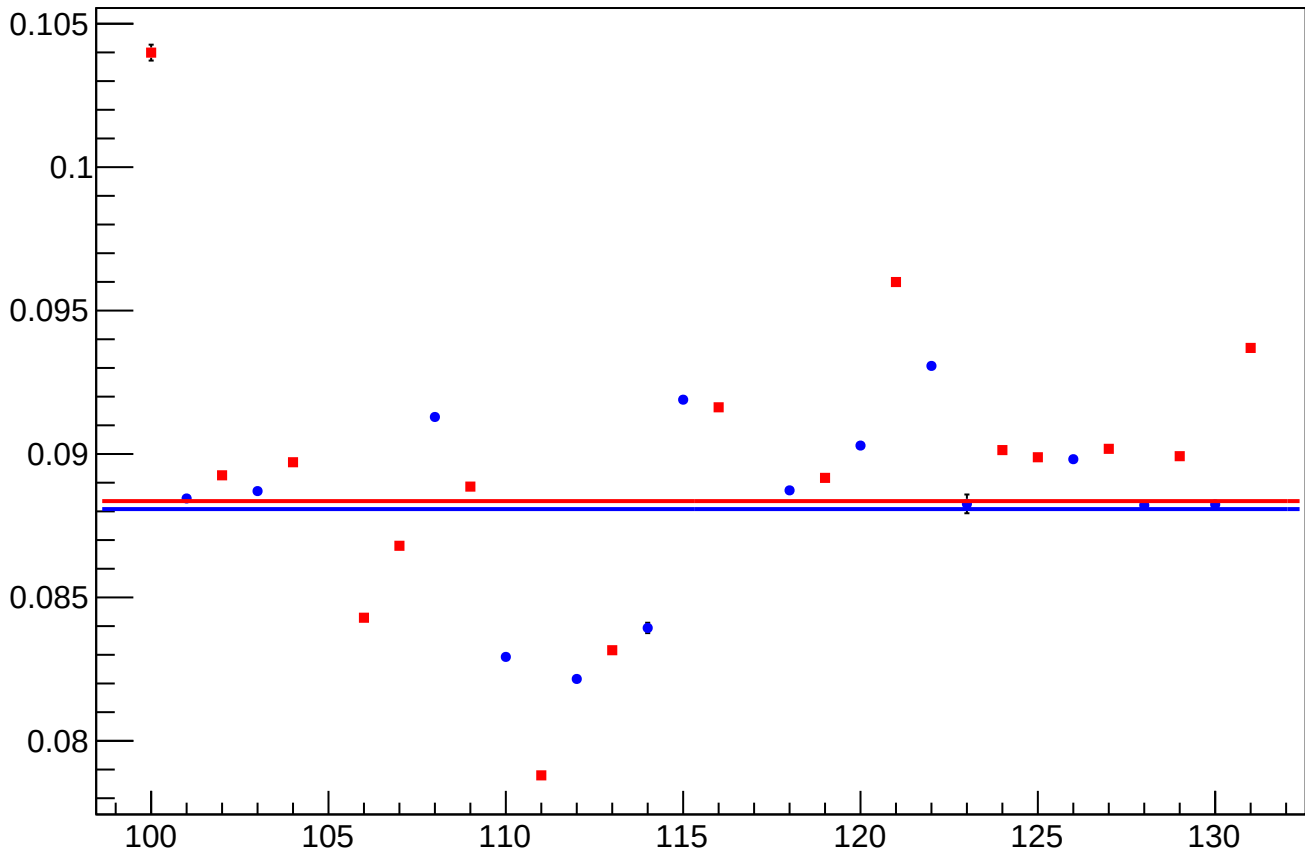
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ :0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: -0.323+/-0.000  $\chi^2/\text{NDF}$ : 402304033.1/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05X\_rms vs Slug



Right In: 0.088+/-0.000  $\chi^2/\text{NDF}$ : 12781.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.088+/-0.000  $\chi^2/\text{NDF}$ : 30291.4/15

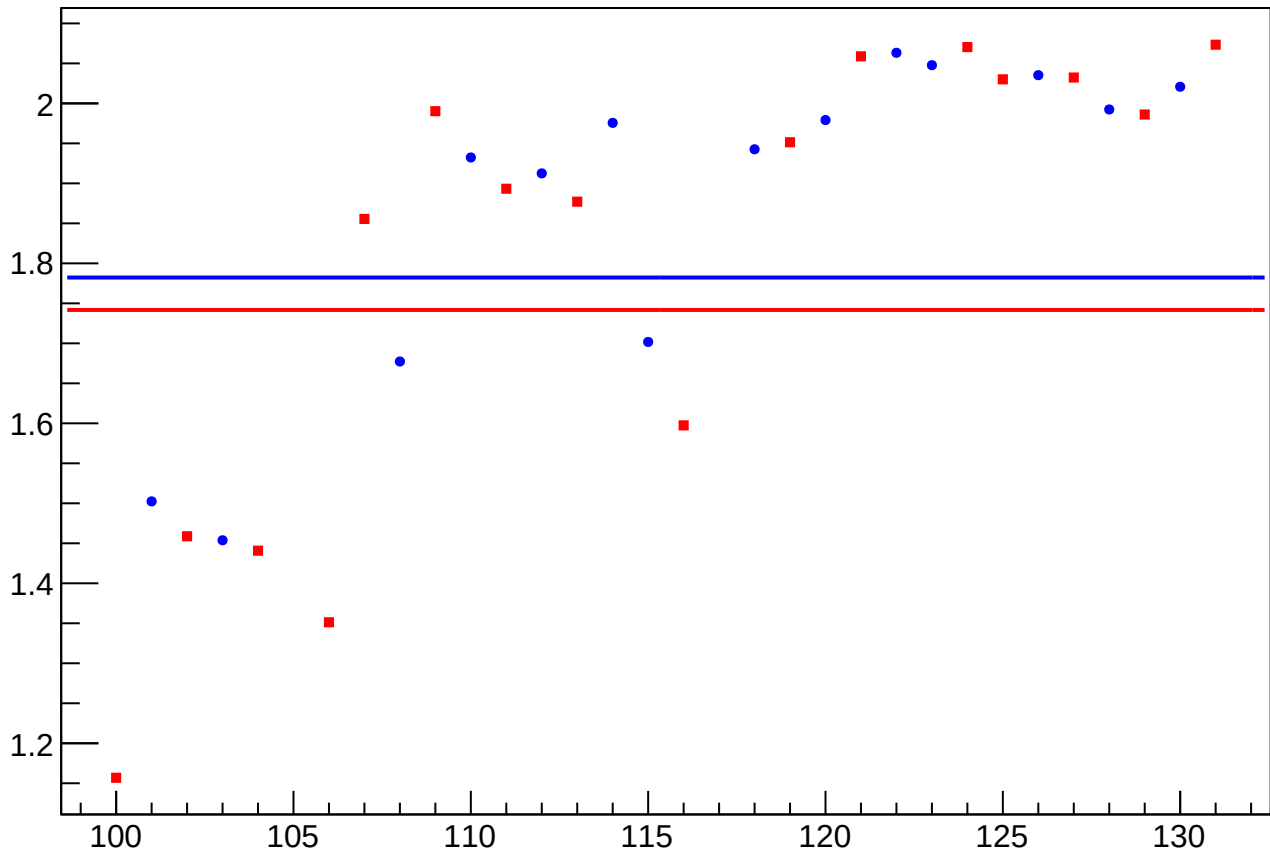
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.088+/-0.000  $\chi^2/\text{NDF}$ : 43128.8/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# yield\_bpm0r05Y\_mean vs Slug



Right In: 1.782 $\pm$ 0.000  $\chi^2$ /NDF: 1083054476.4/13

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

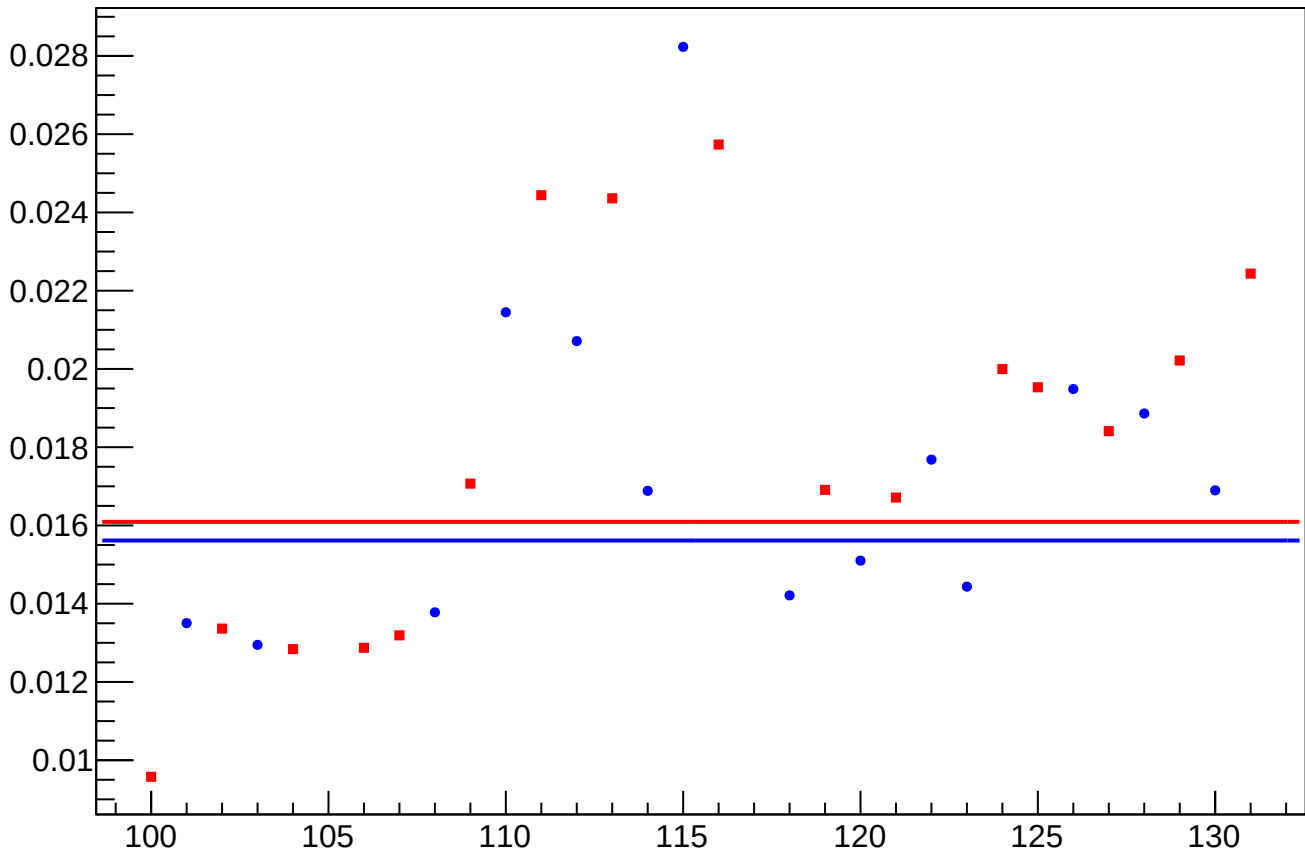
Right Out: 1.742 $\pm$ 0.000  $\chi^2$ /NDF: 1610960547.2/15

All: 1.762 $\pm$ 0.000  $\chi^2$ /NDF: 2709920783.4/29

- 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\_bpm0r05Y\_rms vs Slug



Right In: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 308390.6/13

Left Out: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

Right Out: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 596359.9/15

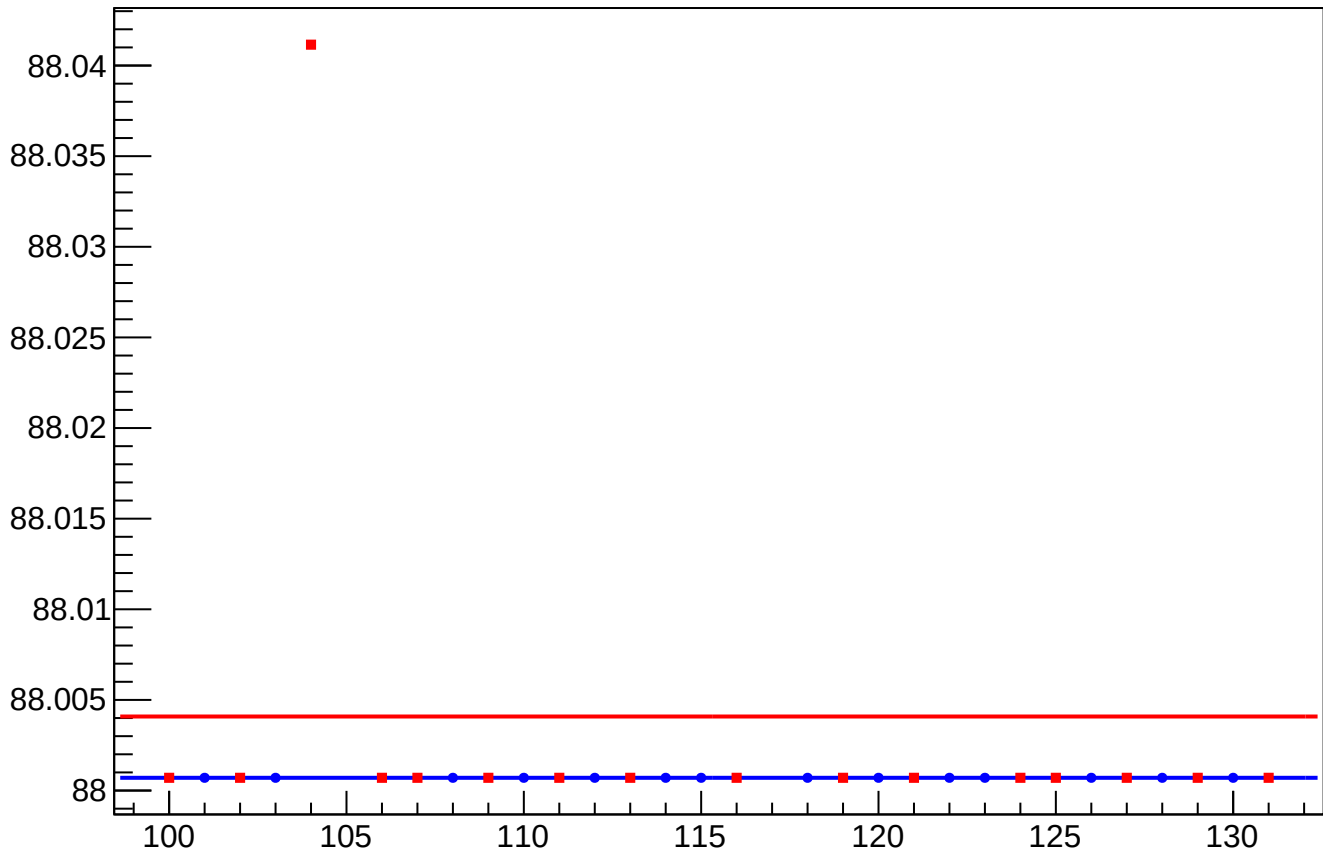
Left In: 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

+ sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

All: 0.016+/-0.000  $\chi^2/\text{NDF}$ : 909167.5/29

- sign 0.000+/-0.000  $\chi^2/\text{NDF}$ : 0.0/0

# epics\_VWienAngles\_mean vs Slug



Right In: 88.001+/-0.000  $\chi^2$ /NDF: 1295095.0/13

Left Out: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

Right Out: 88.004+/-0.000  $\chi^2$ /NDF: 76463724965192244477116284928.0/15

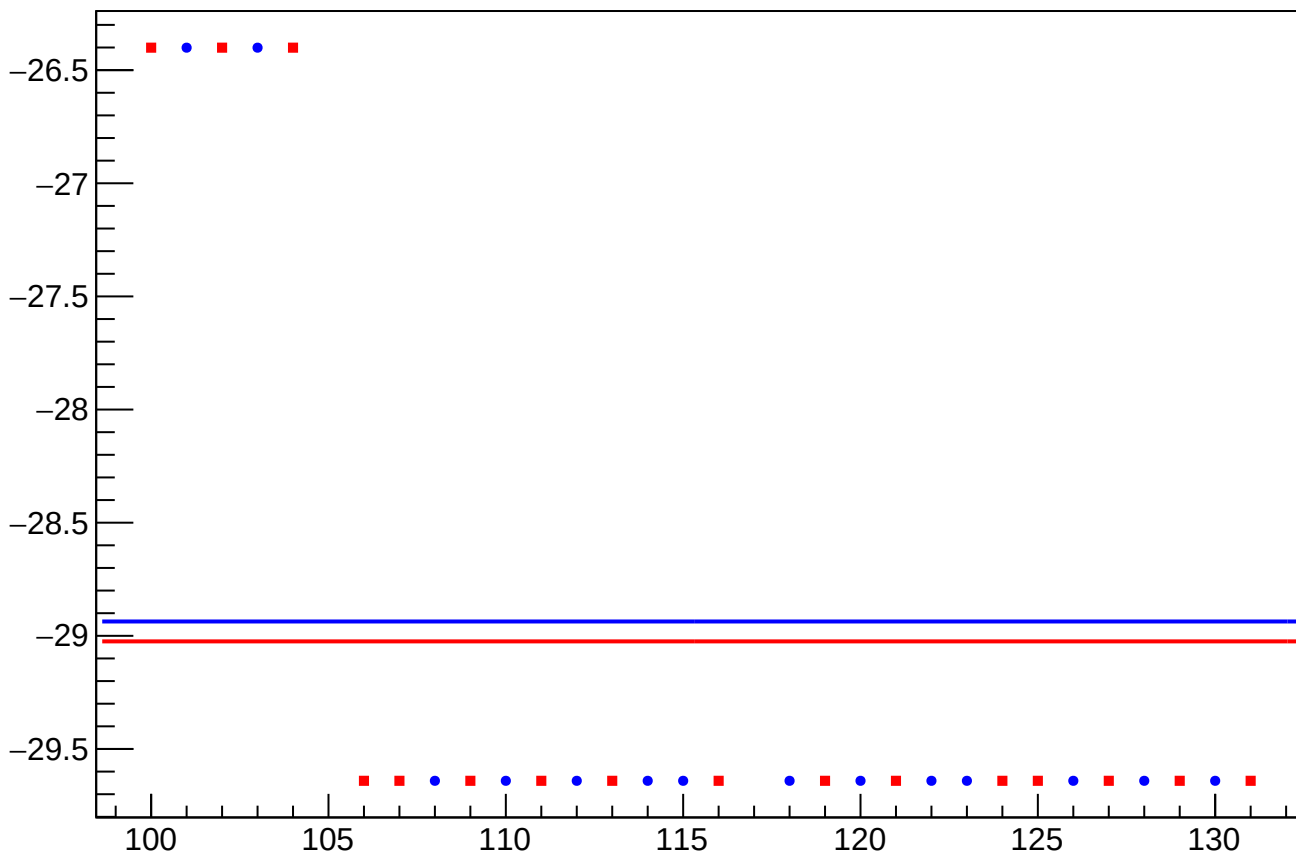
Left In: 0.000+/-0.000  $\chi^2$ /NDF:0.0/0

+ sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

All: 88.002+/-0.000  $\chi^2$ /NDF: 7974909537711

- sign 0.000+/-0.000  $\chi^2$ /NDF: 0.0/0

# epics\_HWienAngles\_mean vs Slug



Right In: -28.937+/-0.000  $\chi^2/\text{NDF}$ : 969529723756921683204296027406336.0/13

+ 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: -28.983+/-0.000  $\chi^2/\text{NDF}$ : 195790710286

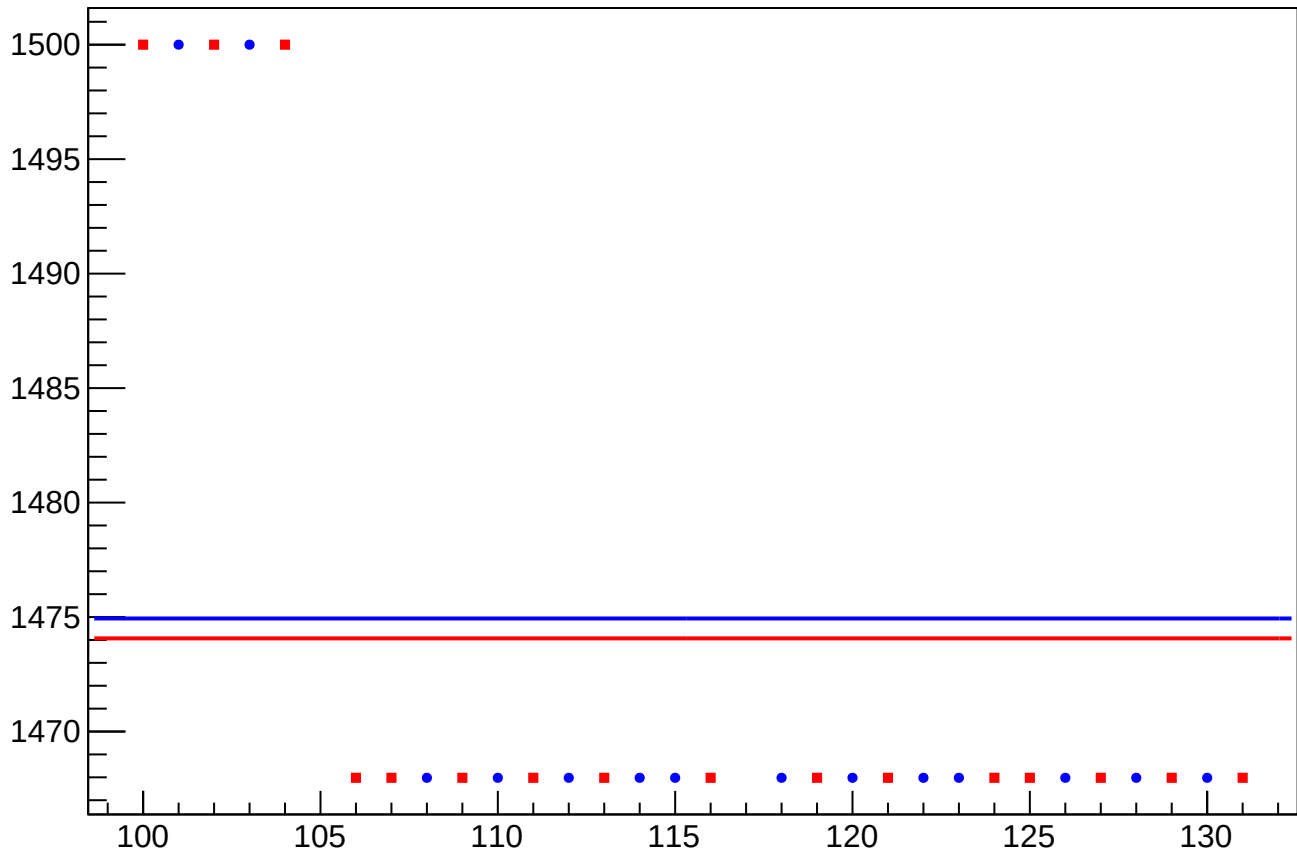
Right Out: -29.025+/-0.000  $\chi^2/\text{NDF}$ : 986154869508205149109151005147136.0/15

- 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: 1474.938+/-0.000  $\chi^2/\text{NDF}$ : 94700420773674271713236936065810432.0/13

+ 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

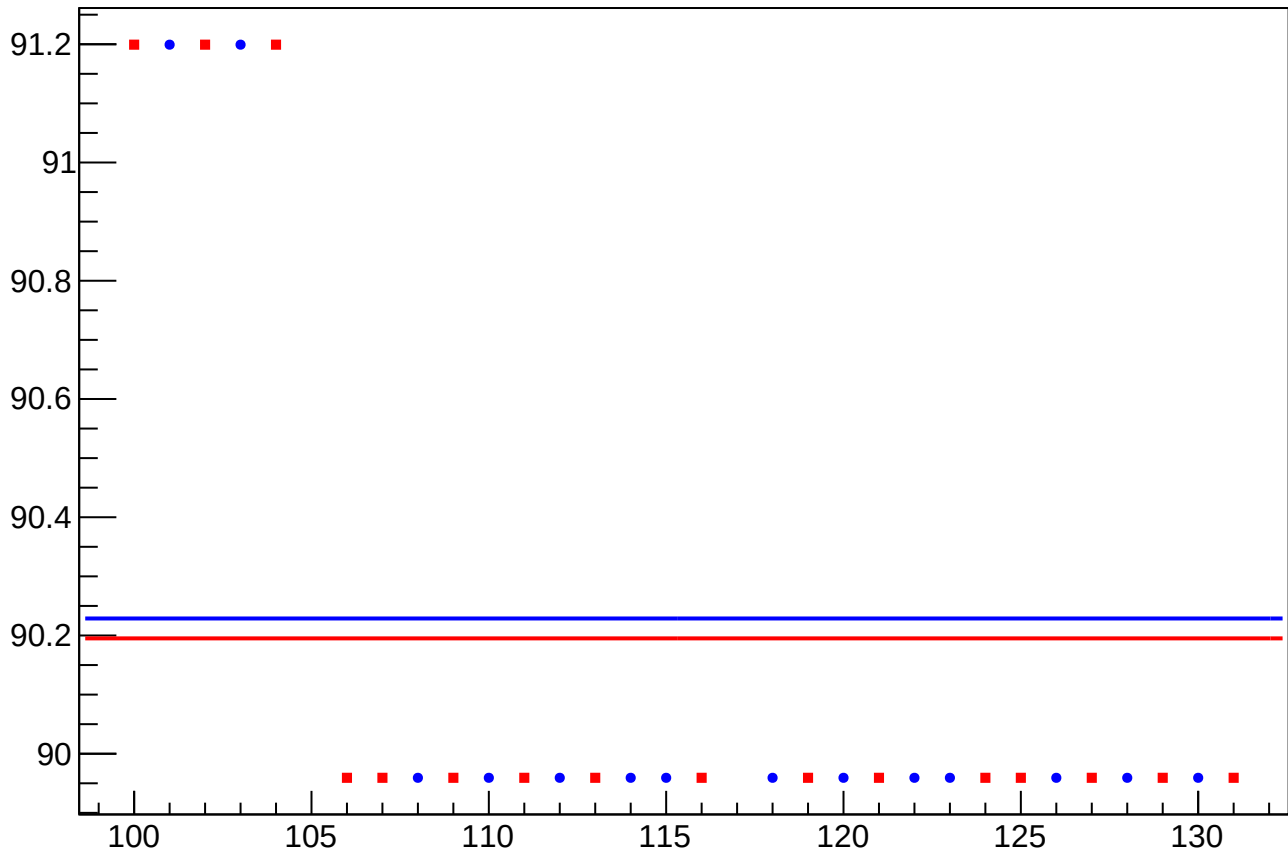
All: 1474.478+/-0.000  $\chi^2/\text{NDF}$ : 19124181748

Right Out: 1474.069+/-0.000  $\chi^2/\text{NDF}$ : 96324309406992942899397853003644928.0/15

- 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: 90.229+/-0.000  $\chi^2/\text{NDF}$ : 142008545119732581966661480873984.0/13

+ 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

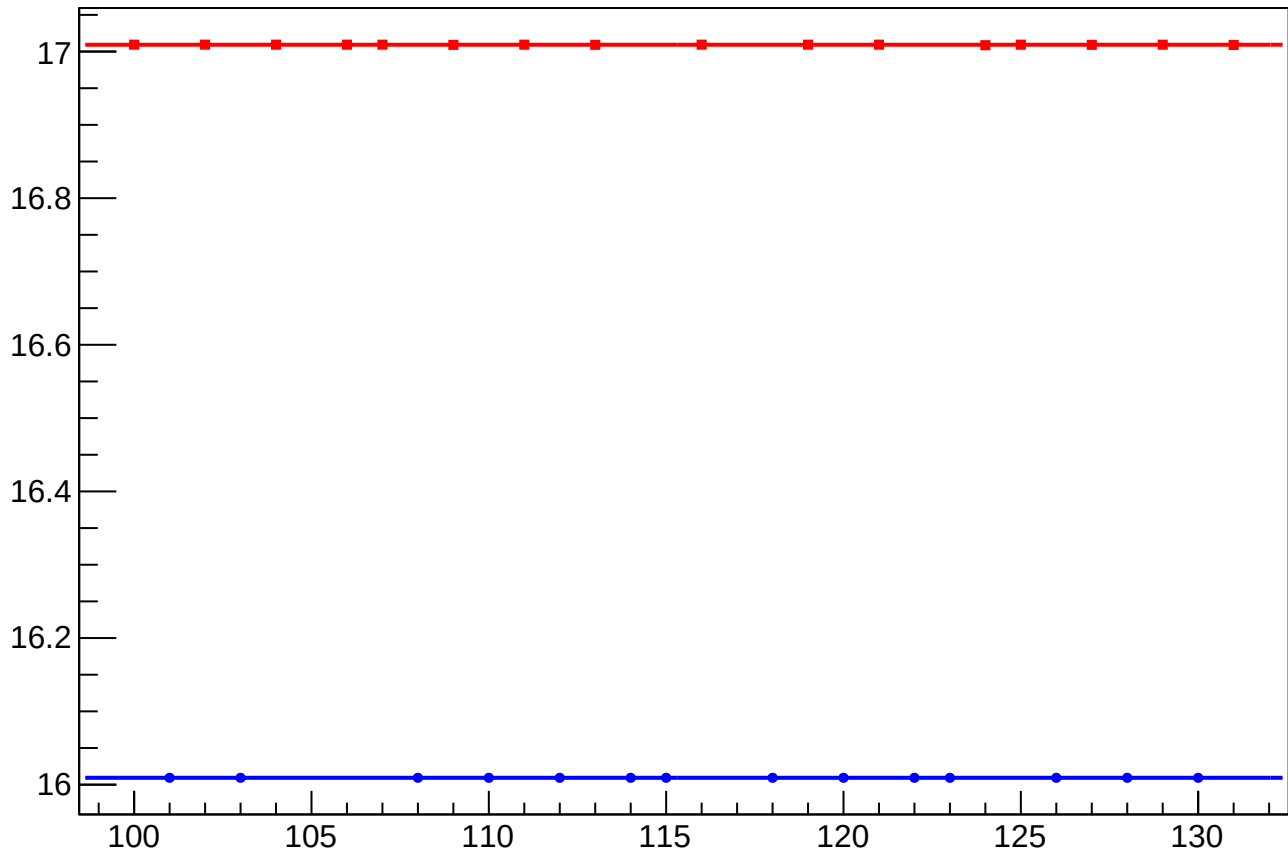
All: 90.211+/-0.000  $\chi^2/\text{NDF}$ : 2867777359931

Right Out: 90.195+/-0.000  $\chi^2/\text{NDF}$ : 144443656393470834273490969821184.0/15

- 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: 30153.4/13

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

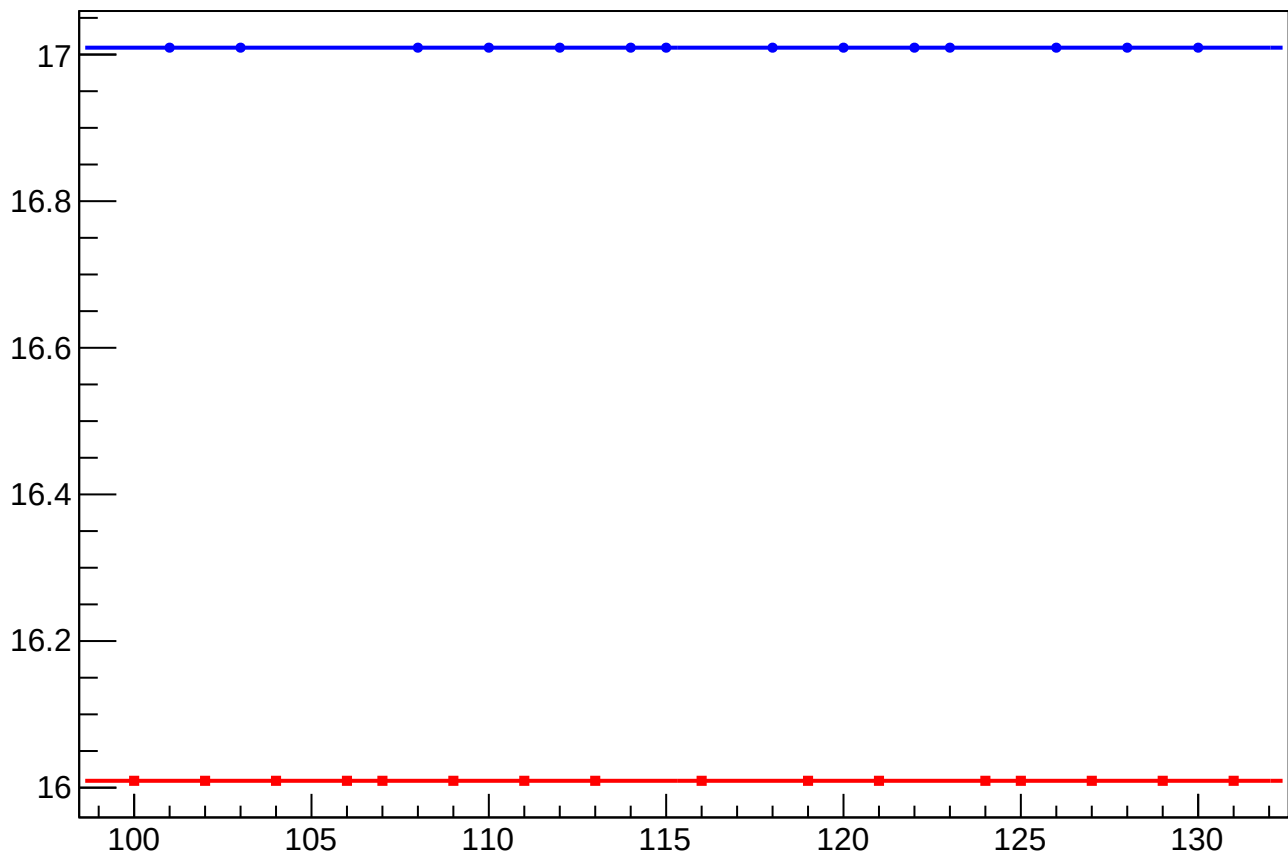
Right Out: 17.009 $\pm$ 0.000  $\chi^2$ /NDF: 11978618903091864085200896.0/15

All: 16.514 $\pm$ 0.000  $\chi^2$ /NDF: 2711741874846

- 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\_IGL1I00OD16\_16s\_mean vs Slug



Right In: 17.009 $\pm$ 0.000  $\chi^2$ /NDF: 50386.1/13

Left Out: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

Right Out: 16.009 $\pm$ 0.000  $\chi^2$ /NDF: 29837.9/15

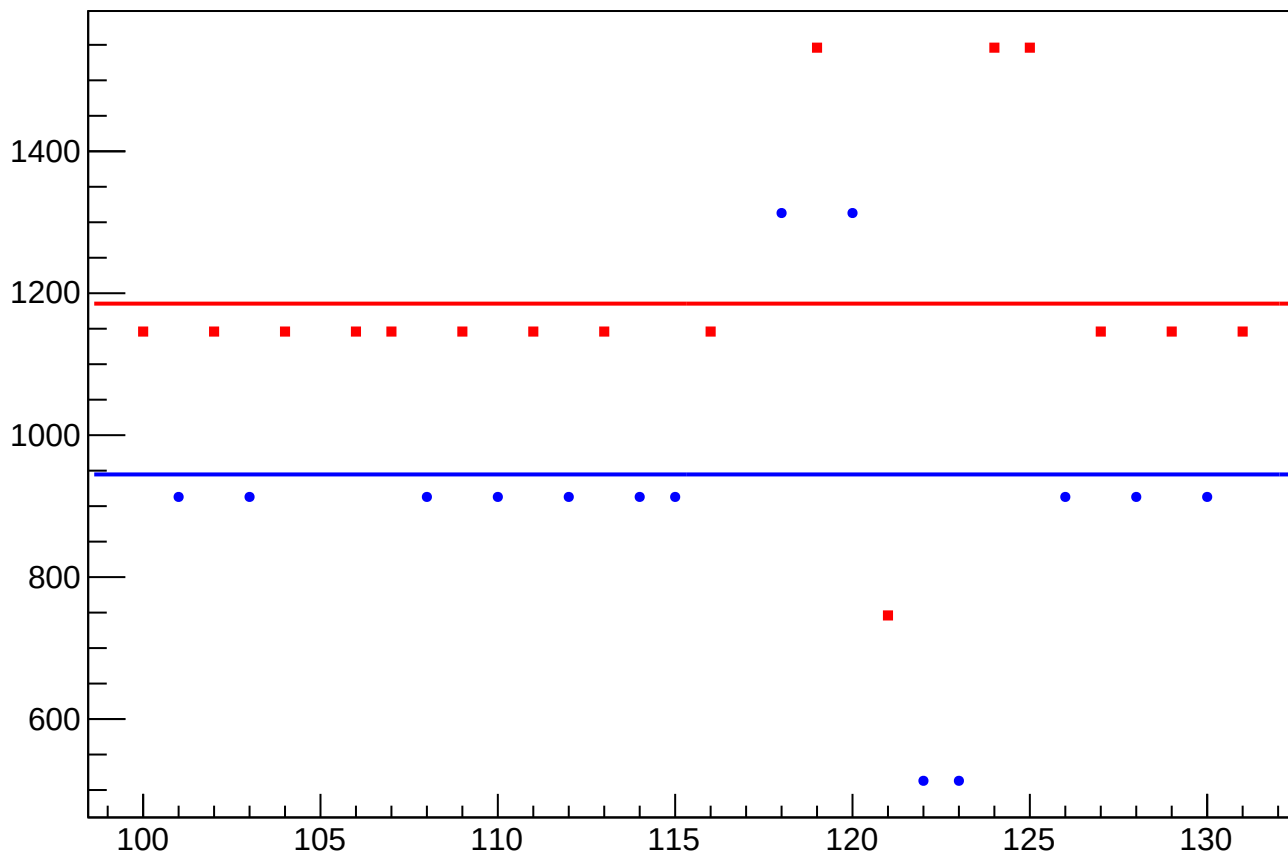
Left In: 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

+ sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

All: 16.468 $\pm$ 0.000  $\chi^2$ /NDF: 2766005385996

- sign 0.000 $\pm$ 0.000  $\chi^2$ /NDF: 0.0/0

# epics\_RTPAPOSUCNTs\_mean vs Slug



Right In: 944.672+/-0.000  $\chi^2/\text{NDF}$ : 20736486112410128658818915562820730880.0/13

+ 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

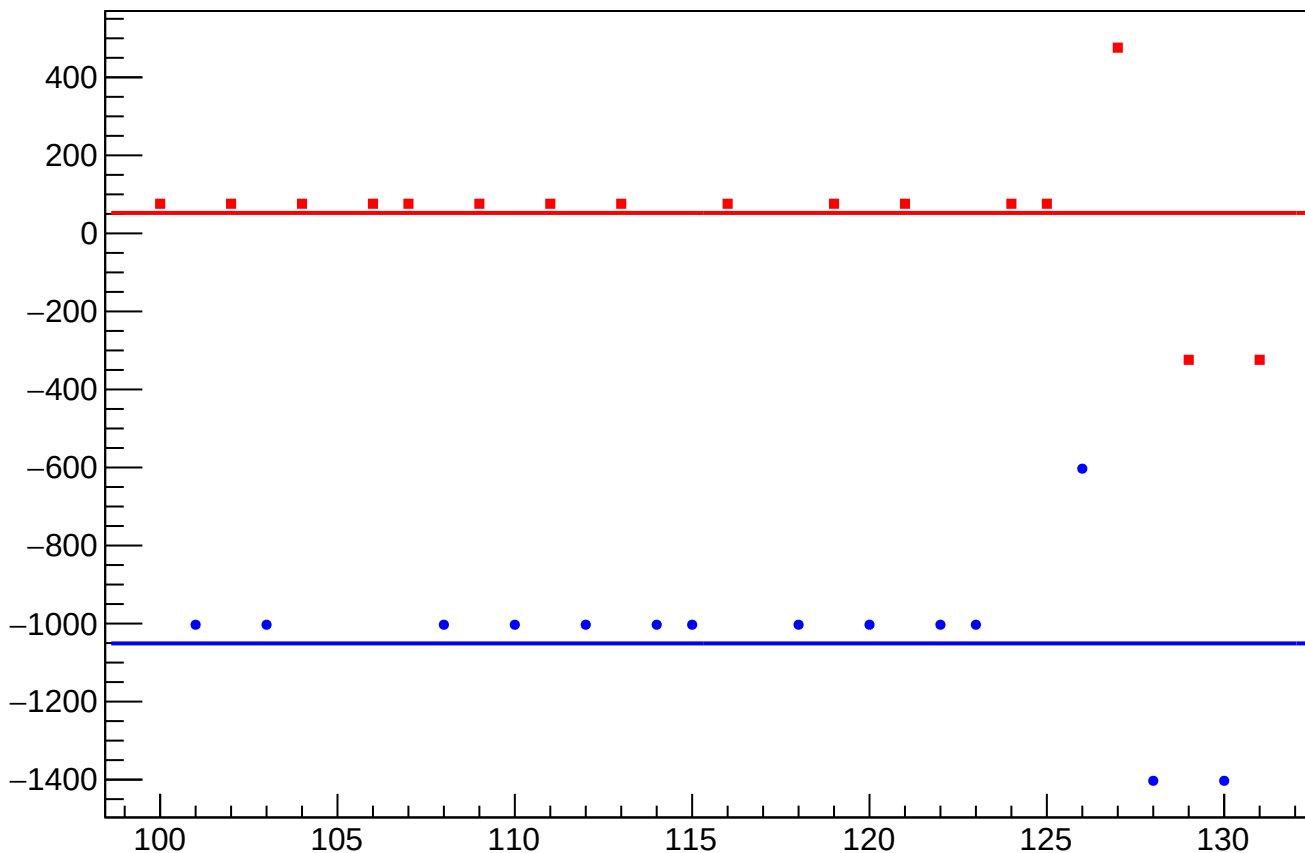
All: 1072.006+/-0.000  $\chi^2/\text{NDF}$ : 58514274217

Right Out: 1185.354+/-0.000  $\chi^2/\text{NDF}$ : 21136474302730922482176647854863417344.0/15

- 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\_RTPAPOSVCNTs\_mean vs Slug



Right In: -1050.871+/-0.000  $\chi^2/\text{NDF}$ : 21954742283706465544481127179751522304.0/13

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

All: -467.179+/-0.000  $\chi^2/\text{NDF}$ : 39081122376

Right Out: 52.403+/-0.000  $\chi^2/\text{NDF}$ : 19179693735699654407640175115480596480.0/15

- 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