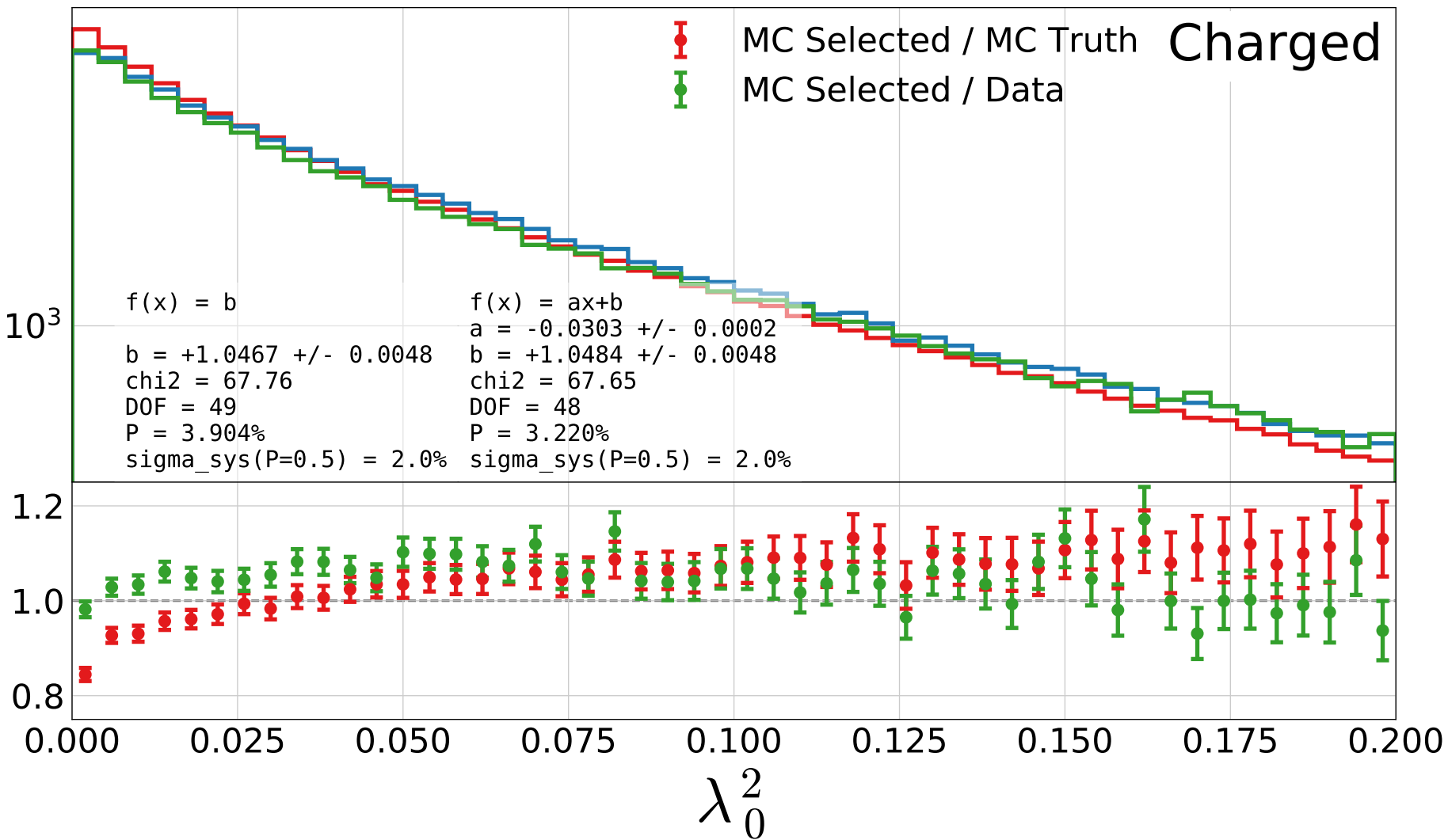


MC Truth (scaled)

MC Selected

Data

Counts

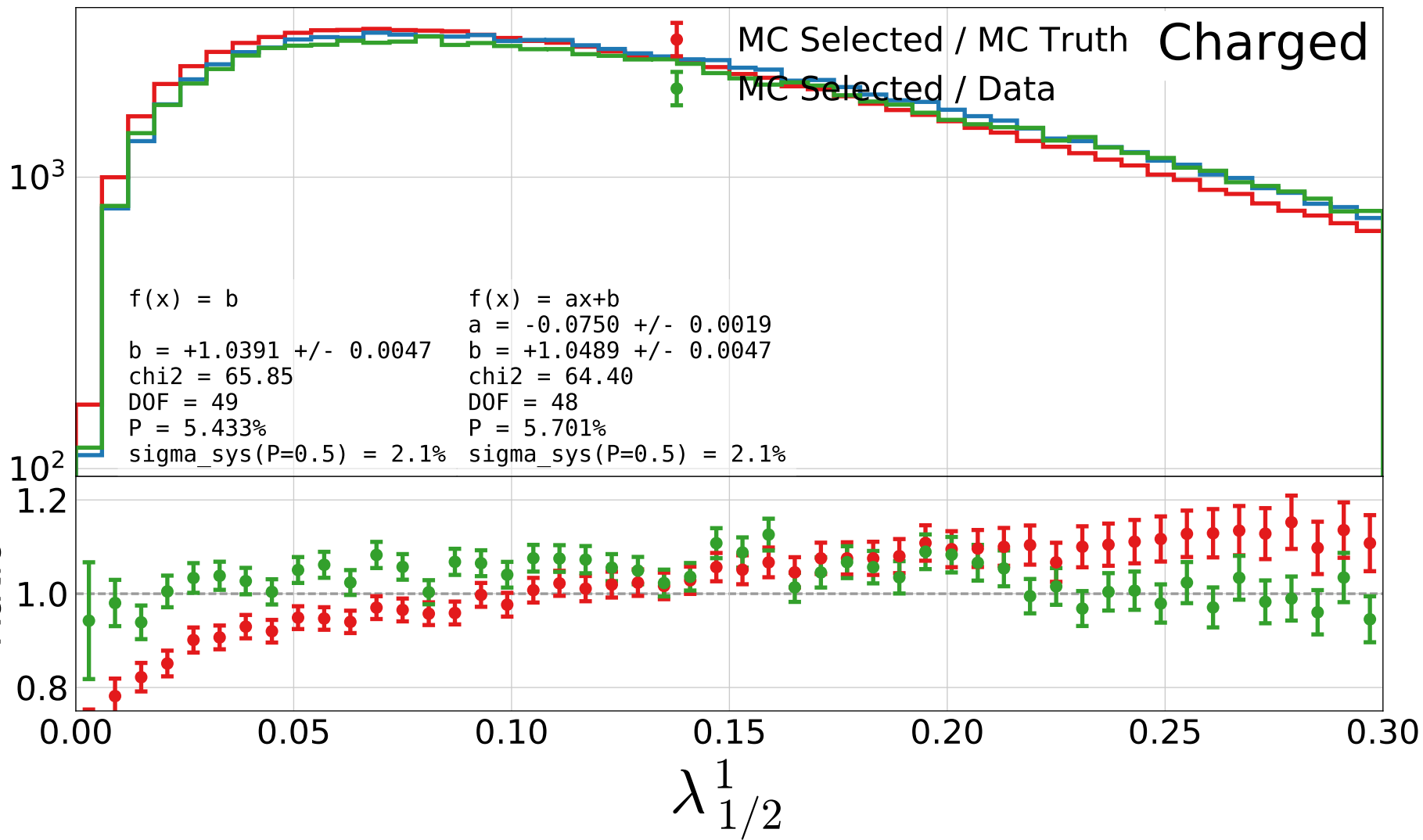


MC Truth (scaled)

MC Selected

Data

Counts

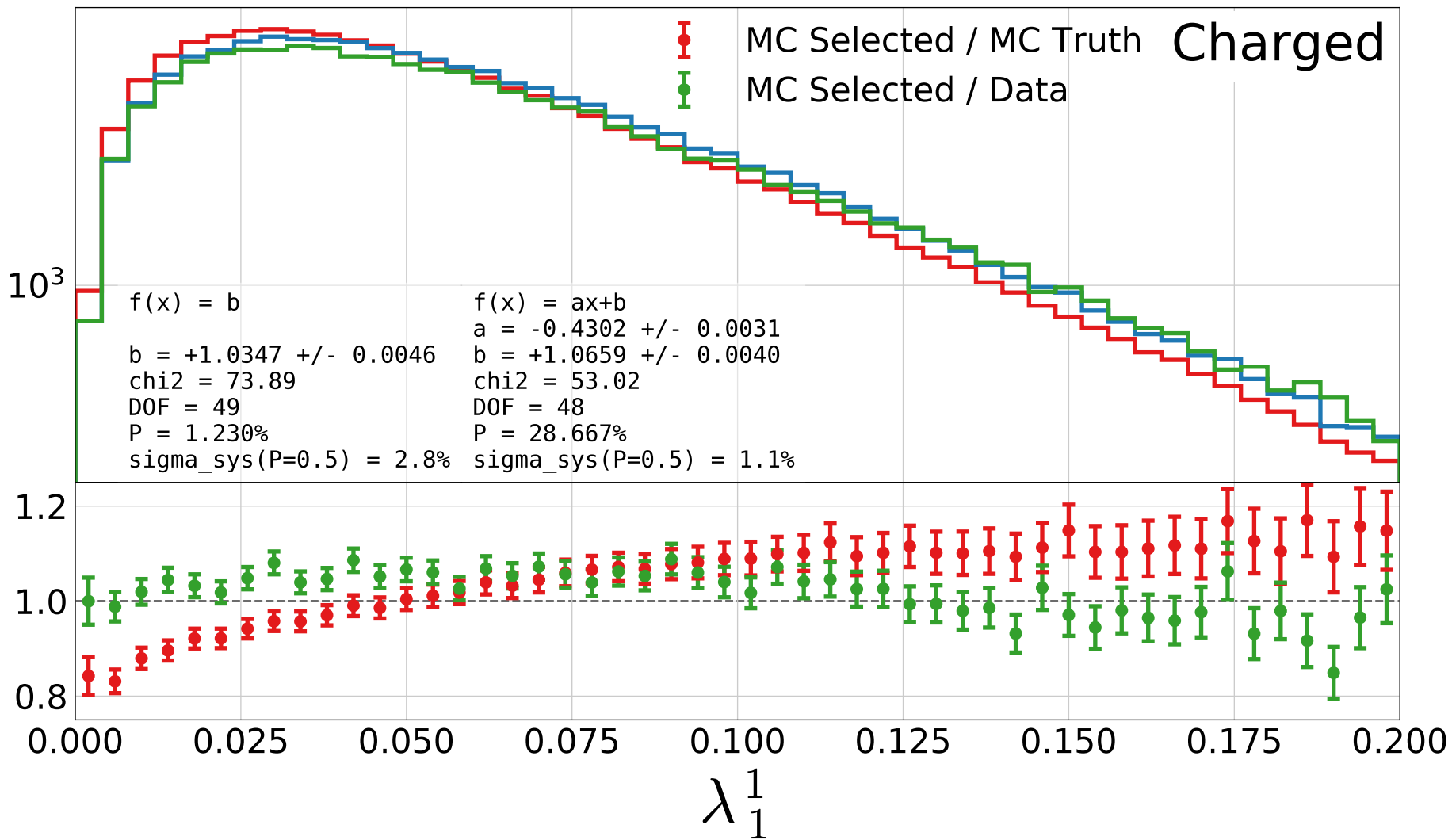


MC Truth (scaled)

MC Selected

Data

Counts



MC Truth (scaled)

MC Selected

Data

Counts

MC Selected / MC Truth

MC Selected / Data

Charged

$$f(x) = b$$

$$b = +1.0327 \pm 0.0045$$

$$\chi^2 = 85.22$$

$$\text{DOF} = 49$$

$$P = 0.103\%$$

$$\text{sigma}_{\text{sys}}(P=0.5) = 3.3\%$$

$$f(x) = ax+b$$

$$a = -1.4722 \pm 0.0420$$

$$b = +1.0656 \pm 0.0014$$

$$\chi^2 = 48.69$$

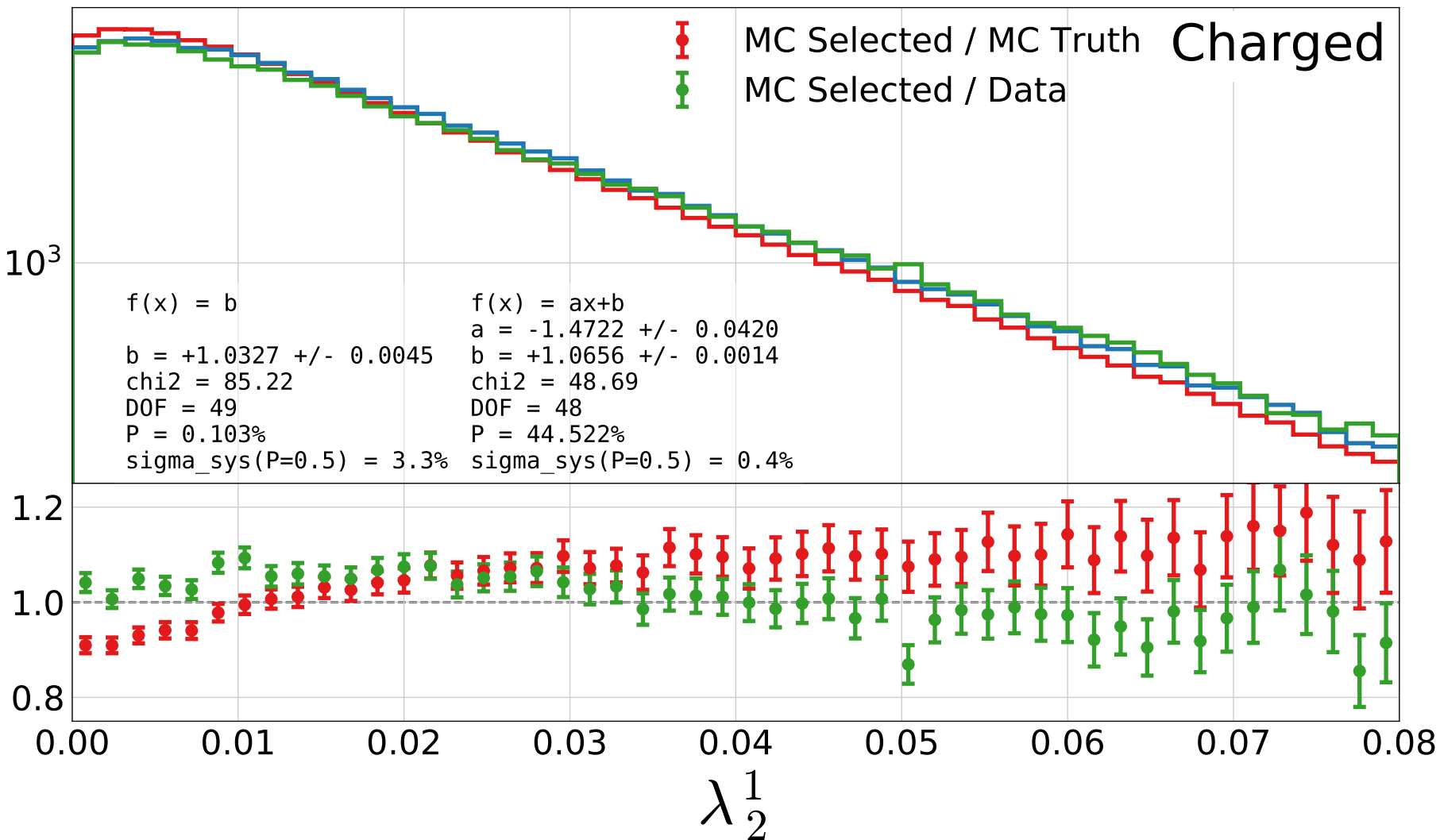
$$\text{DOF} = 48$$

$$P = 44.522\%$$

$$\text{sigma}_{\text{sys}}(P=0.5) = 0.4\%$$

Ratio

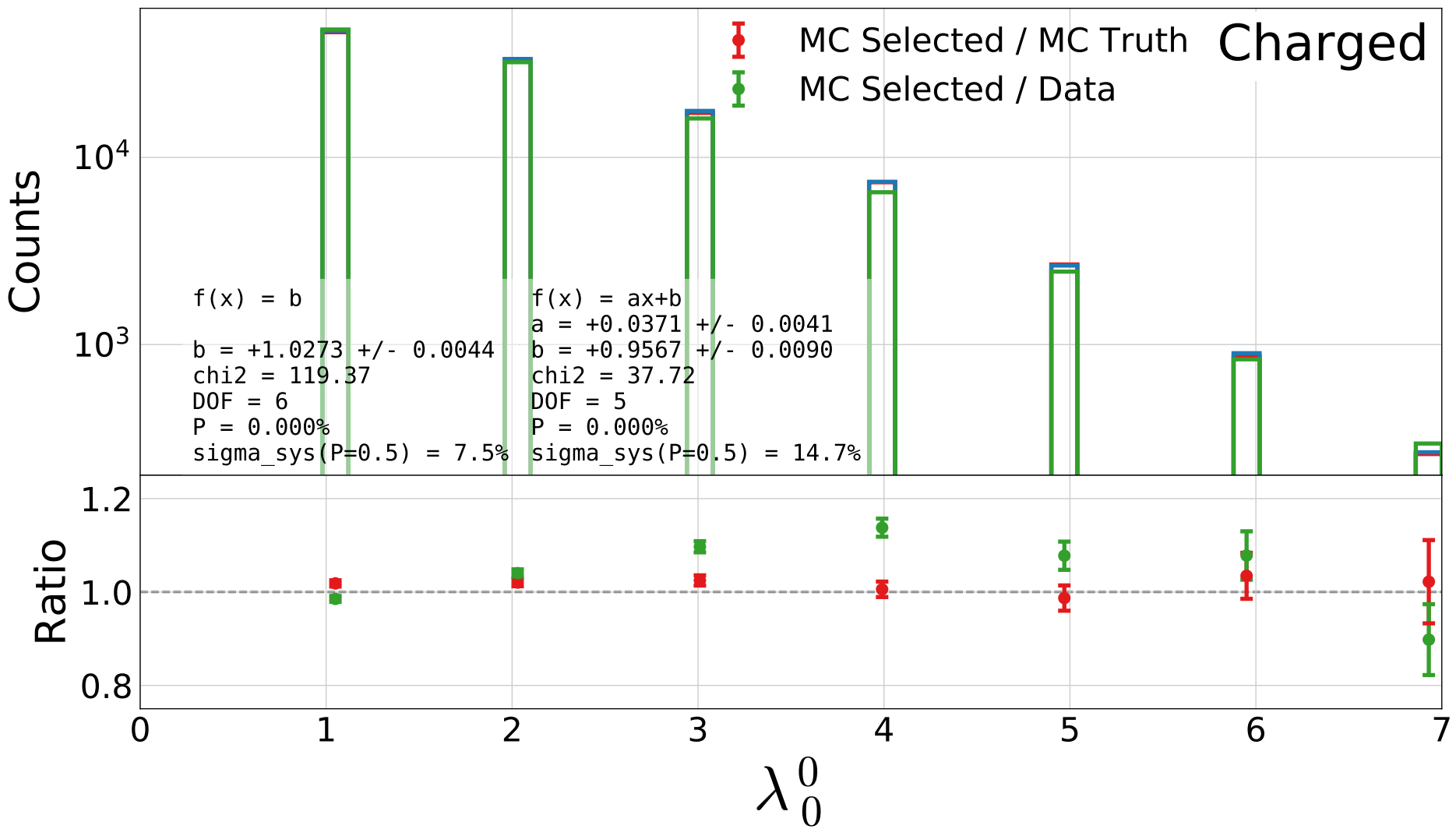
λ_2^1



MC Truth (scaled)

MC Selected

Data



MC Truth (scaled)

MC Selected

Data

Counts

MC Selected / MC Truth
MC Selected / Data

Neutral

$$f(x) = b$$

$$b = +1.1594 \pm 0.0070$$

$$\chi^2 = 106.90$$

$$\text{DOF} = 49$$

$$P = 0.000\%$$

$$\text{sigma_sys}(P=0.5) = 6.0\%$$

$$f(x) = ax+b$$

$$a = -0.5967 \pm 0.0012$$

$$b = +1.1878 \pm 0.0085$$

$$\chi^2 = 92.21$$

$$\text{DOF} = 48$$

$$P = 0.013\%$$

$$\text{sigma_sys}(P=0.5) = 4.2\%$$

Ratio

λ_0^2

MC Truth (scaled)

MC Selected

Data

Counts

Neutral

MC Selected / MC Truth

MC Selected / Data

$f(x) = b$

$b = +1.1547 \pm 0.0069$

$\chi^2 = 88.55$

DOF = 49

$P = 0.046\%$

$\sigma_{\text{sys}}(P=0.5) = 5.3\%$

$f(x) = ax+b$

$a = -0.3415 \pm 0.0363$

$b = +1.1929 \pm 0.0121$

$\chi^2 = 77.54$

DOF = 48

$P = 0.442\%$

$\sigma_{\text{sys}}(P=0.5) = 4.2\%$

Ratio

1.25
1.00
0.75

0.00

0.05

0.10

0.15

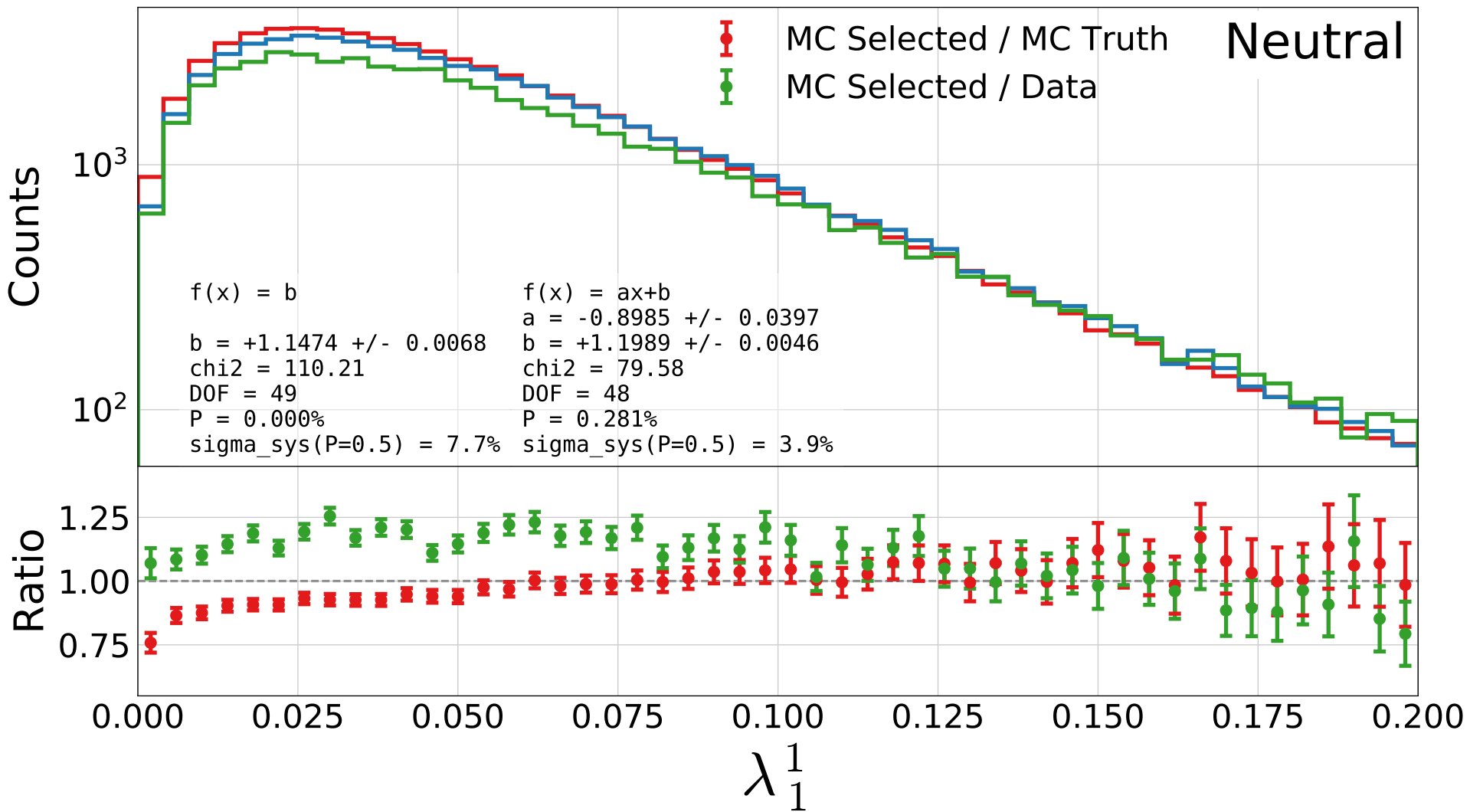
0.20

0.25

0.30

$\lambda_{1/2}^1$

MC Truth (scaled) MC Selected Data



MC Truth (scaled)

MC Selected

Data

Counts

MC Selected / MC Truth

MC Selected / Data

Neutral

$f(x) = b$

$b = +1.1517 \pm 0.0069$

$\chi^2 = 65.18$

DOF = 49

P = 6.072%

$\sigma_{\text{sys}}(P=0.5) = 3.3\%$

$f(x) = ax+b$

$a = -1.6736 \pm 0.4879$

$b = +1.1766 \pm 0.0100$

$\chi^2 = 54.36$

DOF = 48

P = 24.520%

$\sigma_{\text{sys}}(P=0.5) = 1.6\%$

Ratio

0.00

0.01

0.02

0.03

0.04

0.05

0.06

λ_2^1

MC Truth (scaled)

MC Selected

Data

Counts

Ratio

Neutral

MC Selected / MC Truth

MC Selected / Data

$f(x) = b$

$b = +1.1488 \pm 0.0067$

$\chi^2 = 8.61$

DOF = 6

P = 19.683%

$\sigma_{\text{sys}}(P=0.5) = 2.0\%$

$f(x) = ax+b$

$a = +0.0060 \pm 0.0066$

$b = +1.1386 \pm 0.0132$

$\chi^2 = 7.80$

DOF = 5

P = 16.784%

$\sigma_{\text{sys}}(P=0.5) = 4.7\%$

0

1

2

3

4

5

6

7

λ_0^0