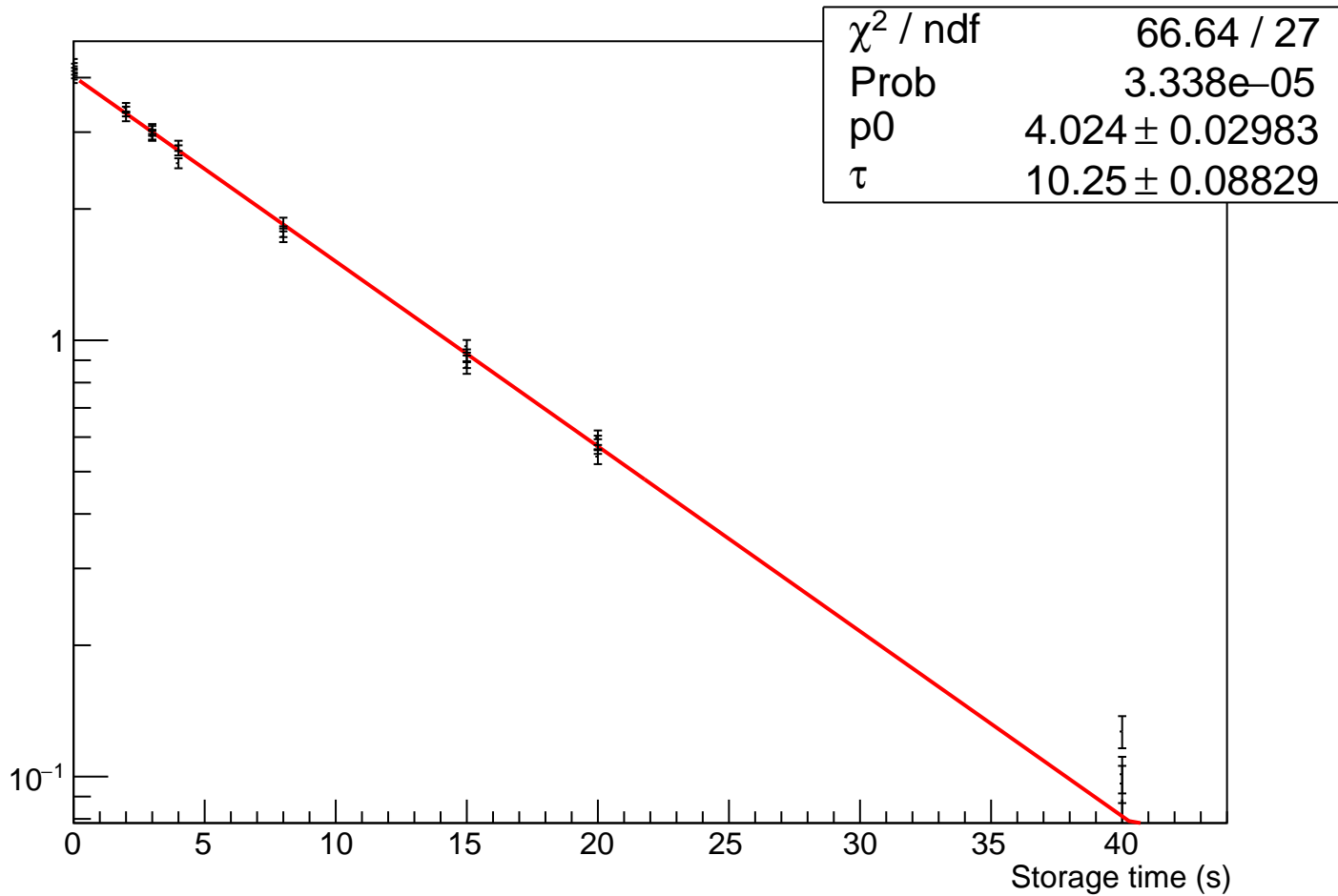


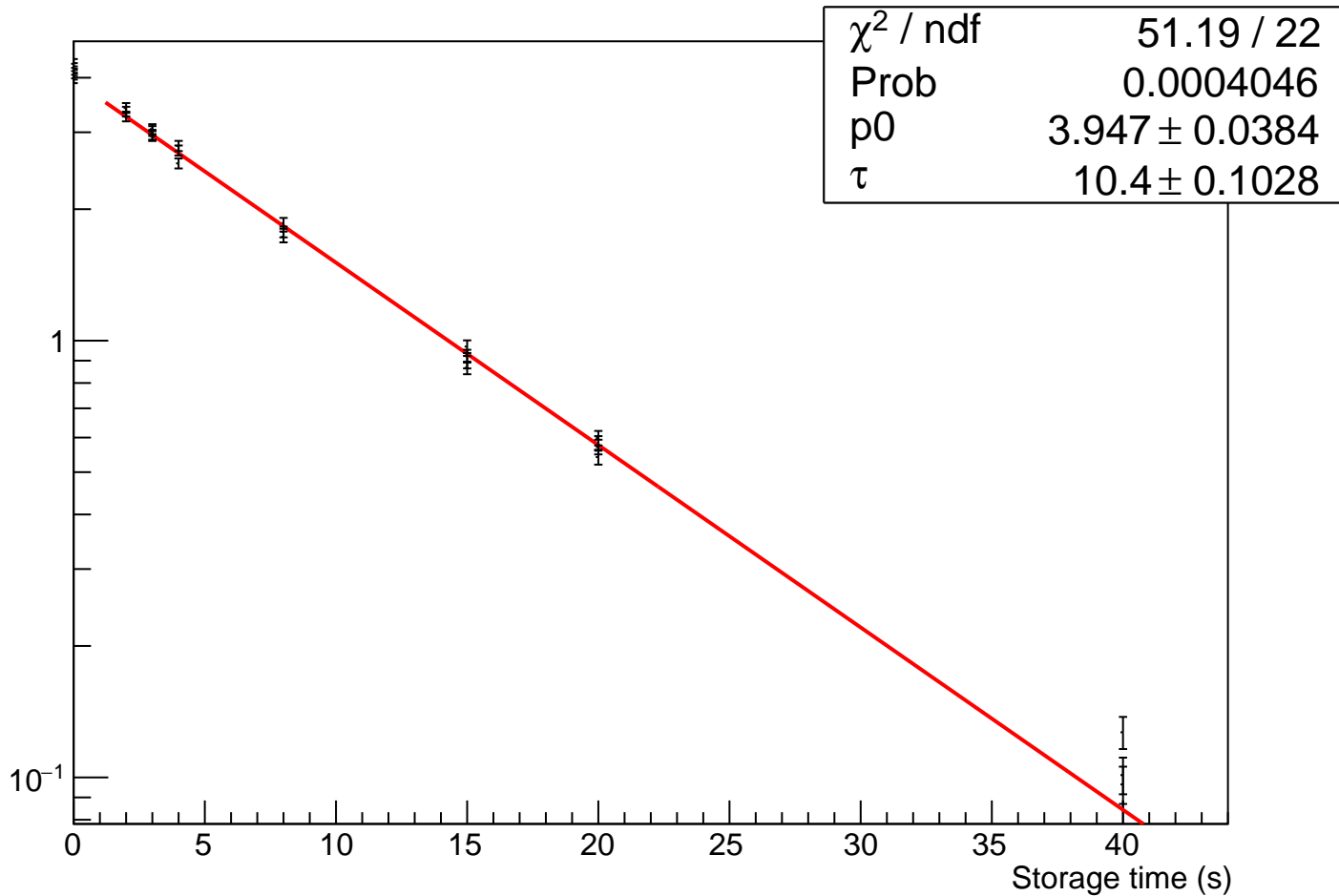
TCN18-217 (single exponential fit, with background subtracted, normalized to monitor detector)

UCN-count-to-monitor ratio



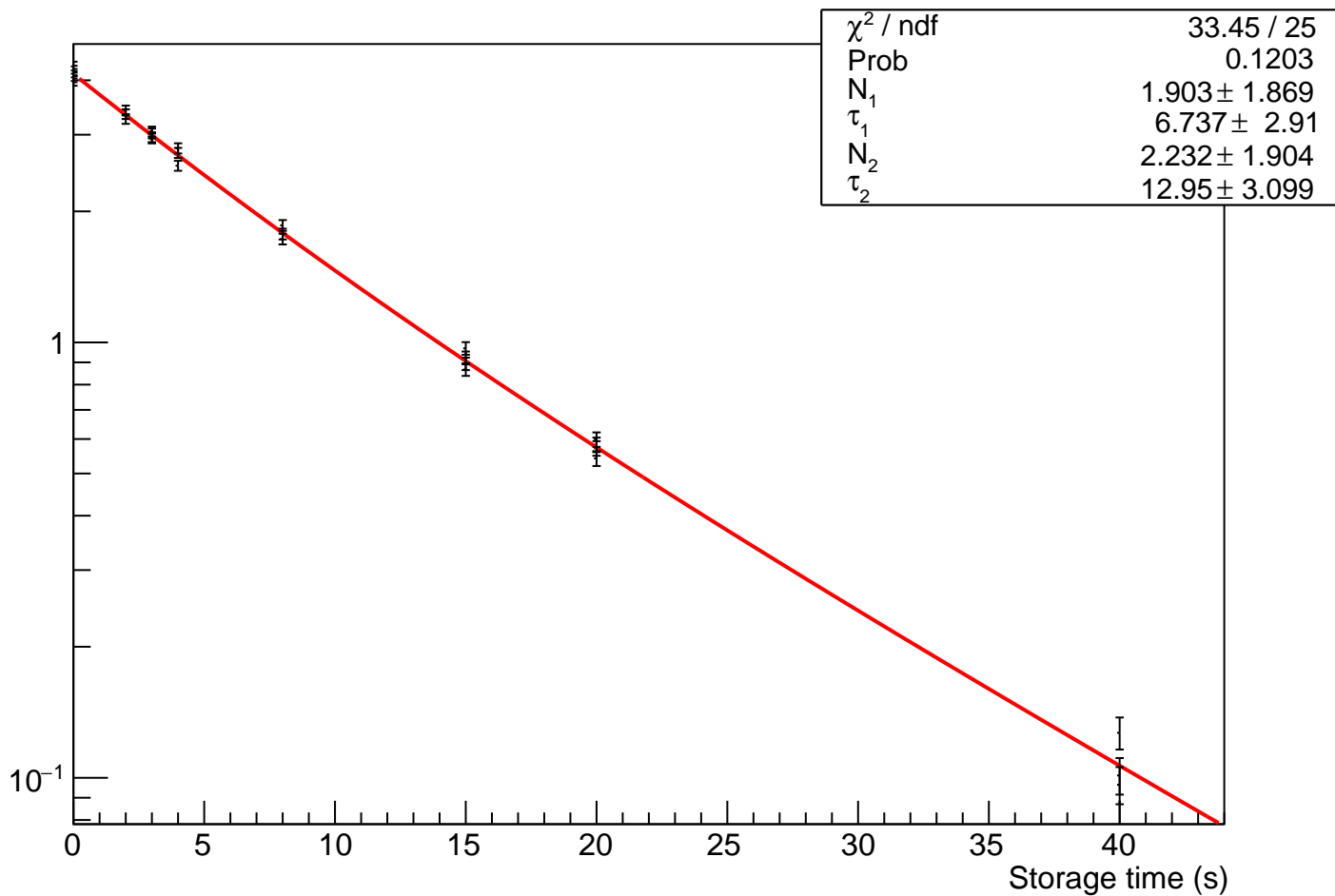
TCN18-217 (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)

UCN-count-to-monitor ratio



TCN18-217 (double exponential fit, with background subtracted, normalized to monitor detector)

UCN-count-to-monitor ratio



TCN18-217 (single exponential fit + background, unnormalized)

UCN count

$10^3$

0

5

10

15

20

25

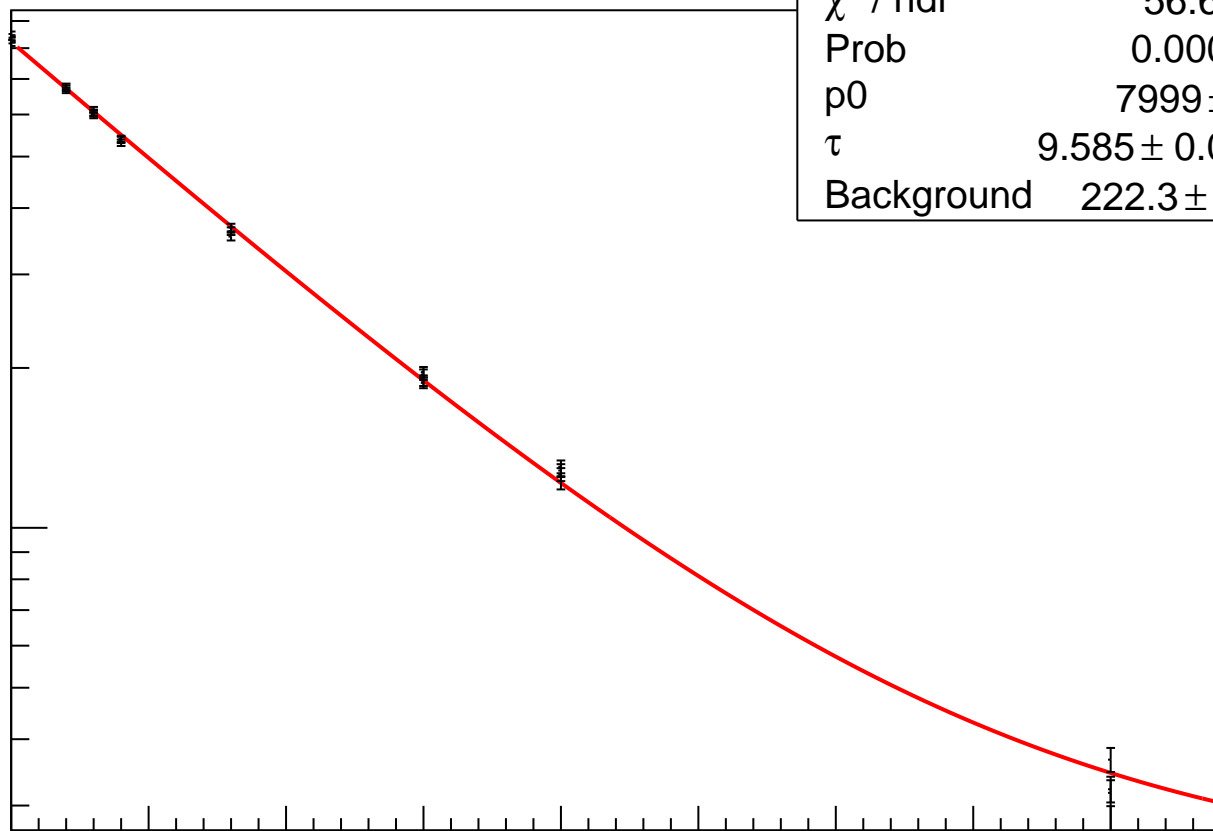
30

35

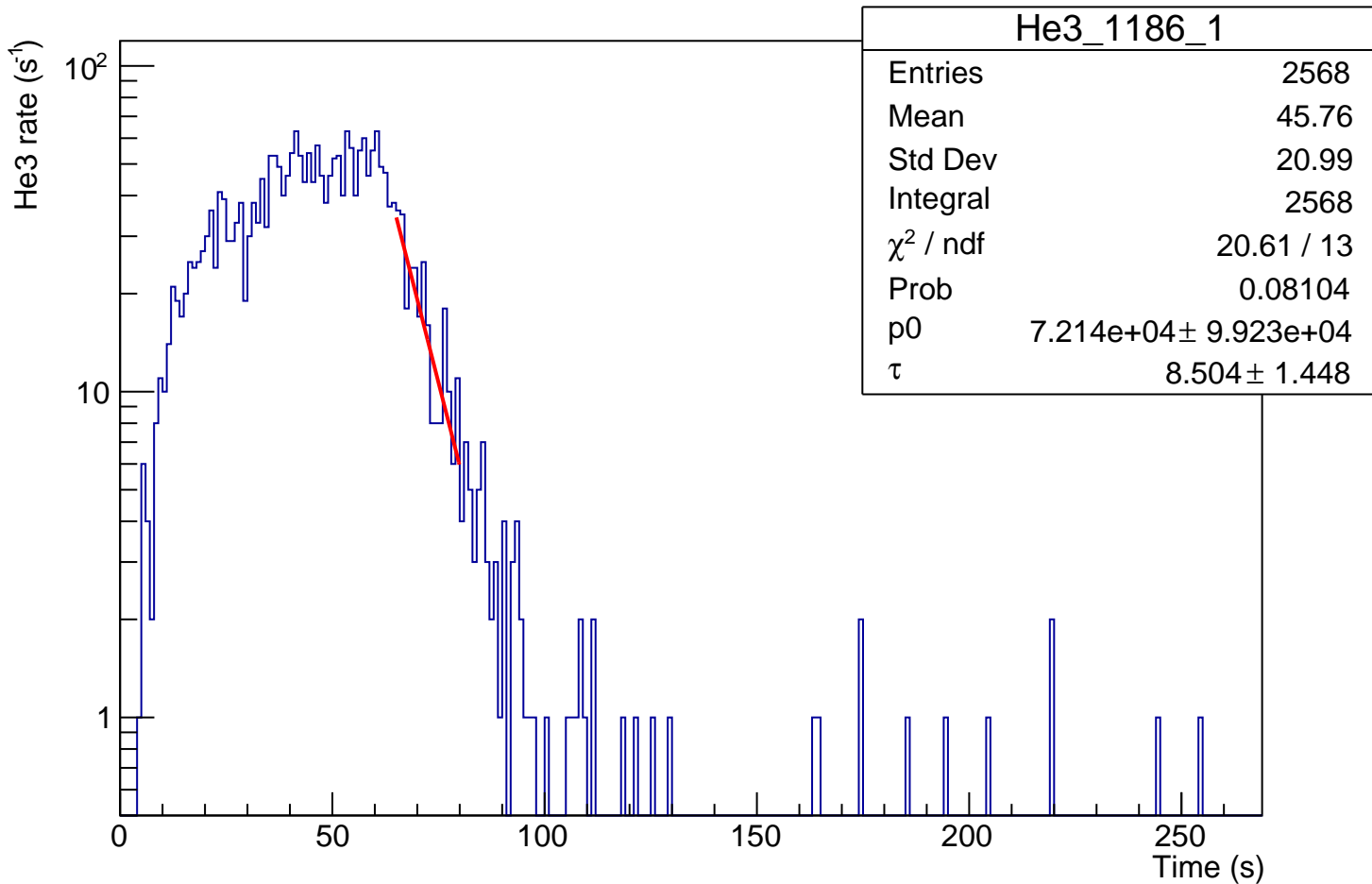
40

Storage time (s)

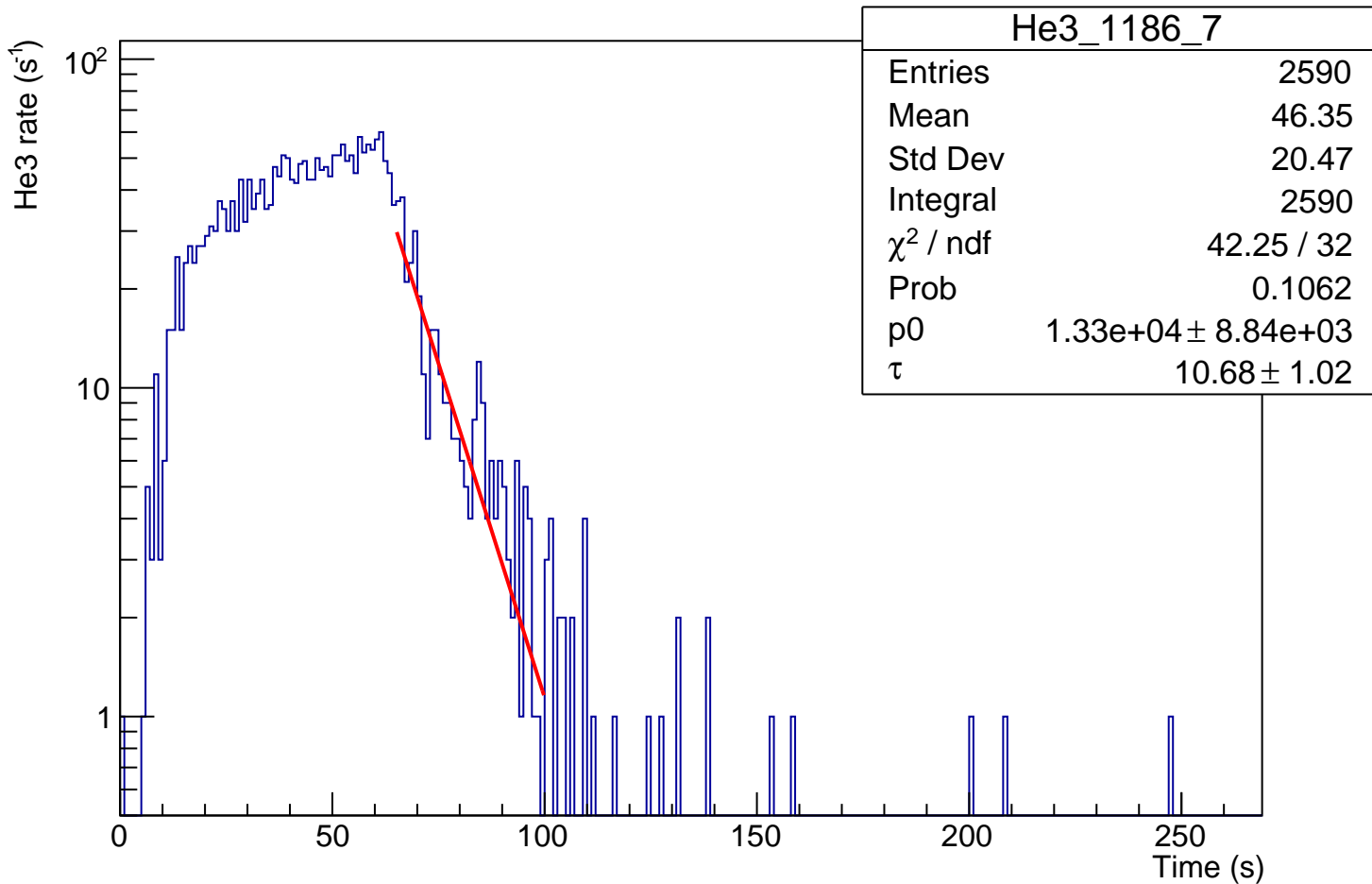
$\chi^2 / \text{ndf}$	56.65 / 26
Prob	0.0004649
p0	$7999 \pm 30$
$\tau$	$9.585 \pm 0.08363$
Background	$222.3 \pm 13.22$



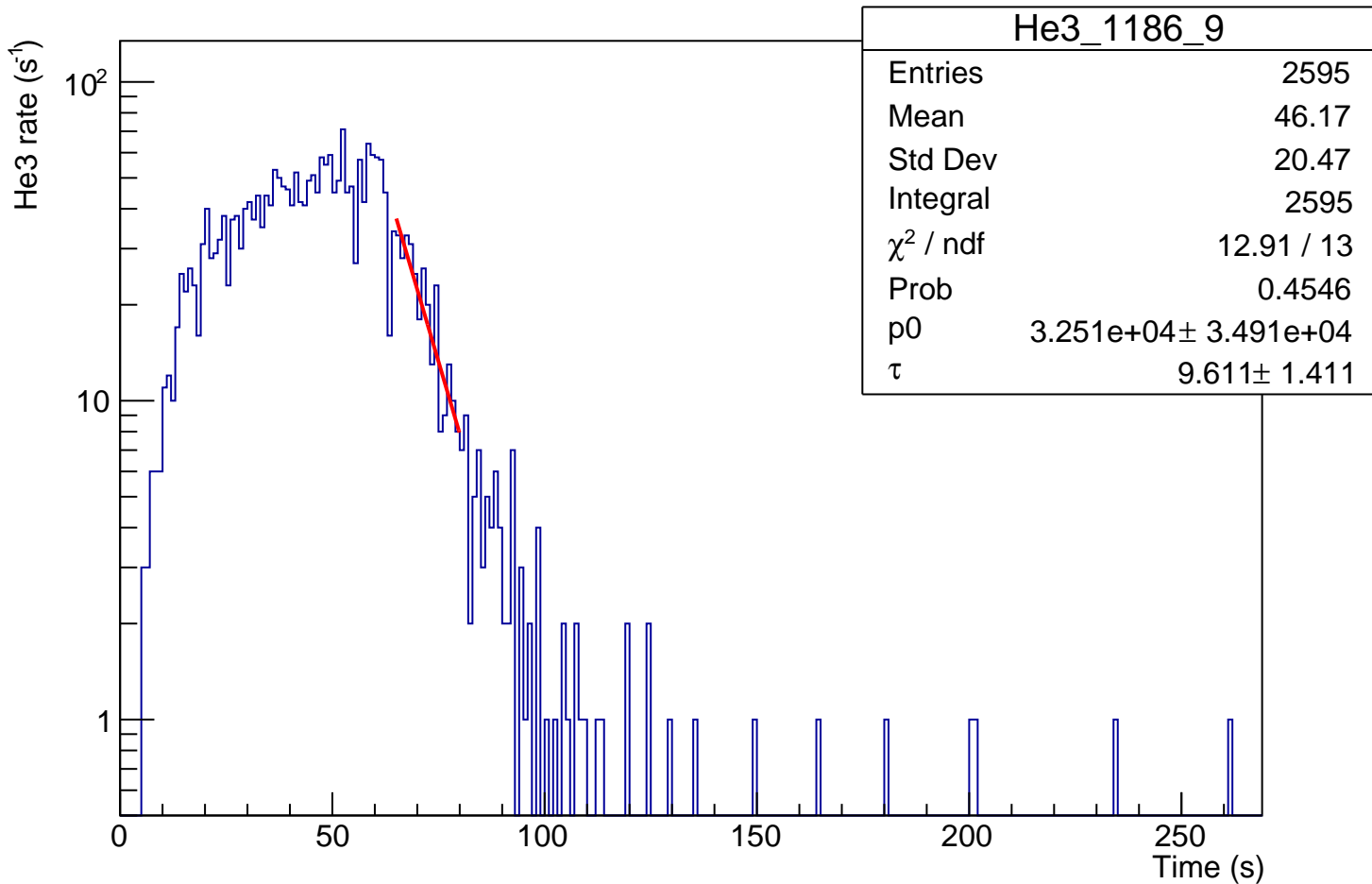
# He3 detector rate



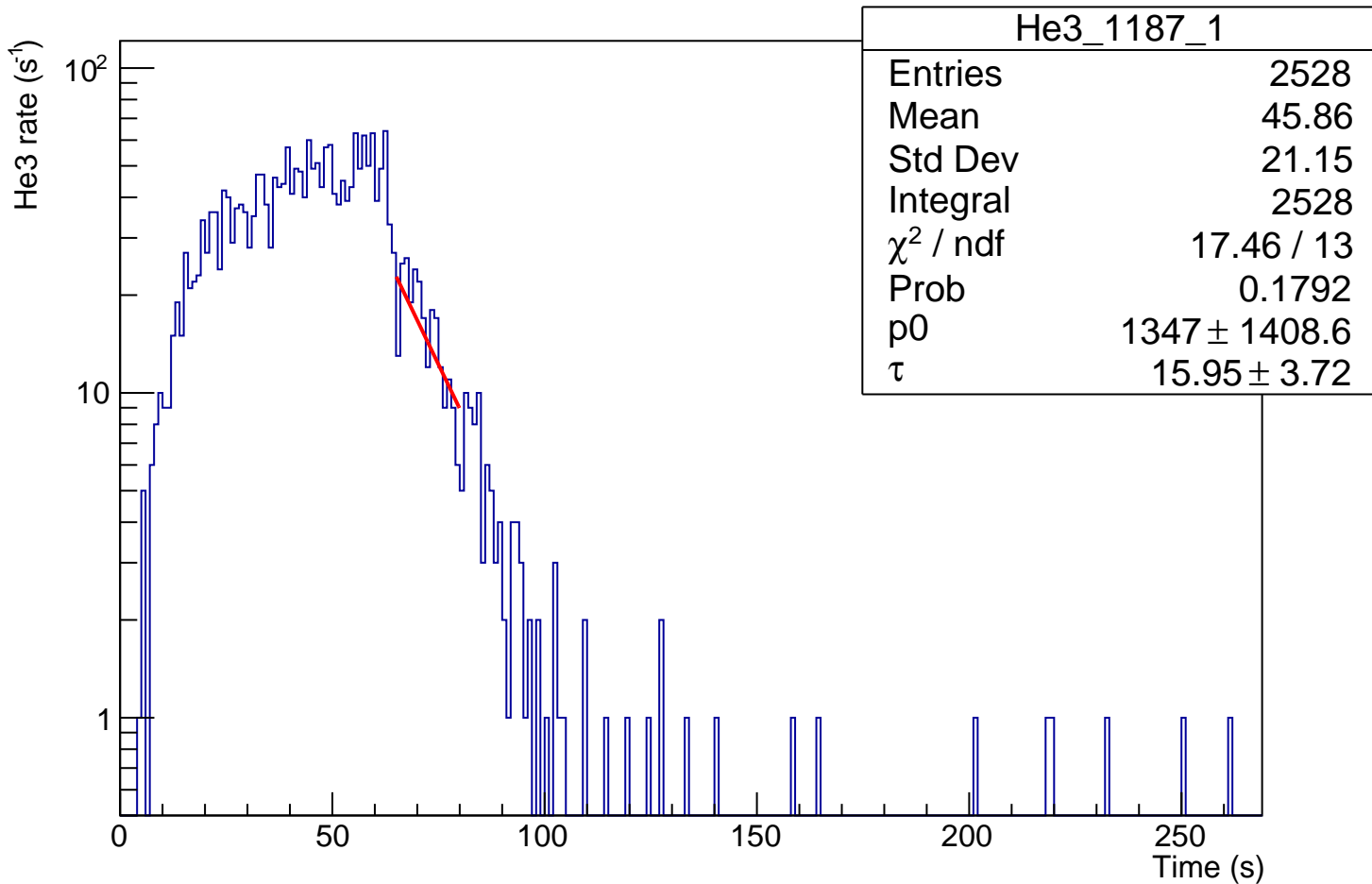
# He3 detector rate



# He3 detector rate

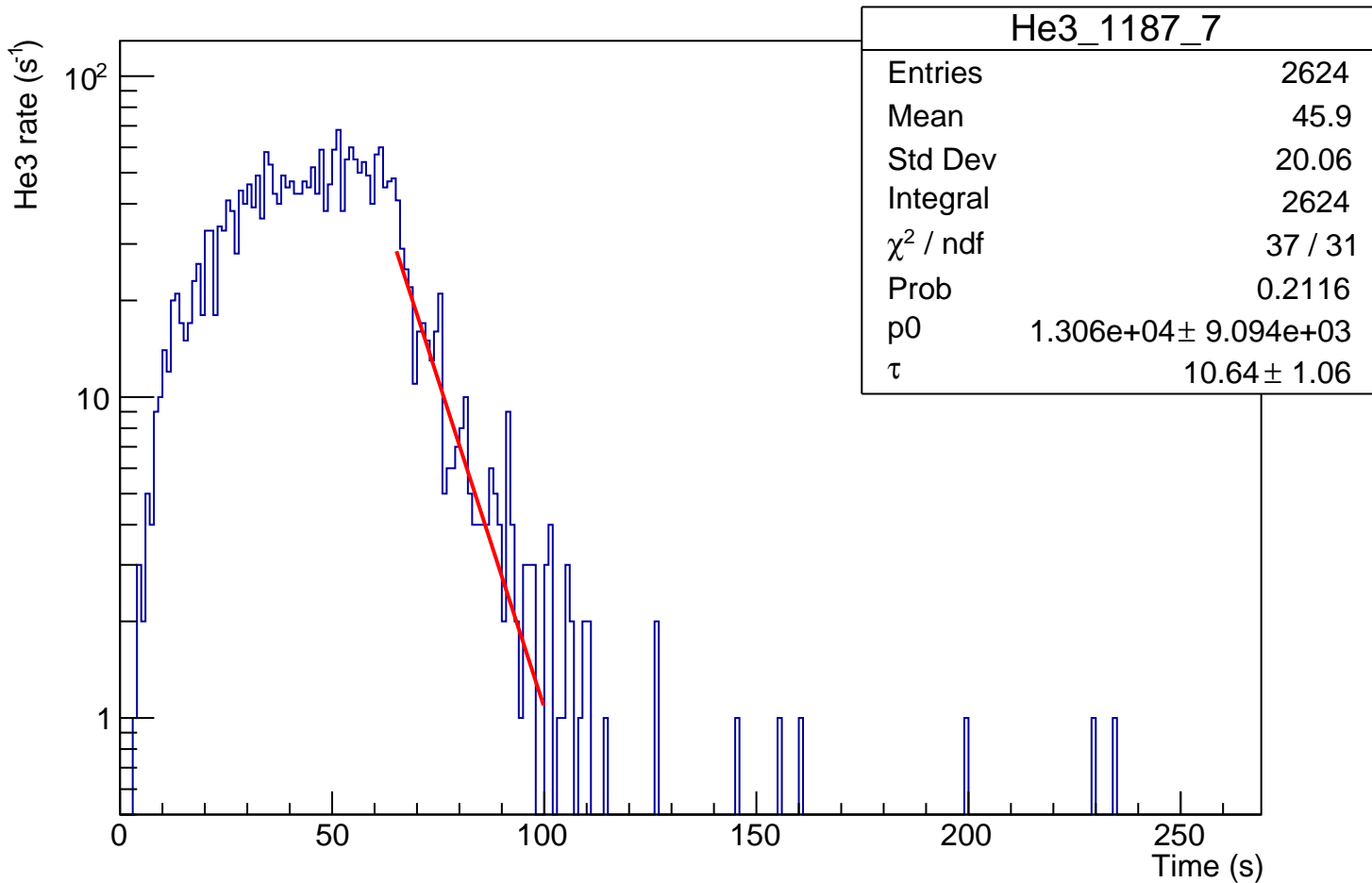


# He3 detector rate

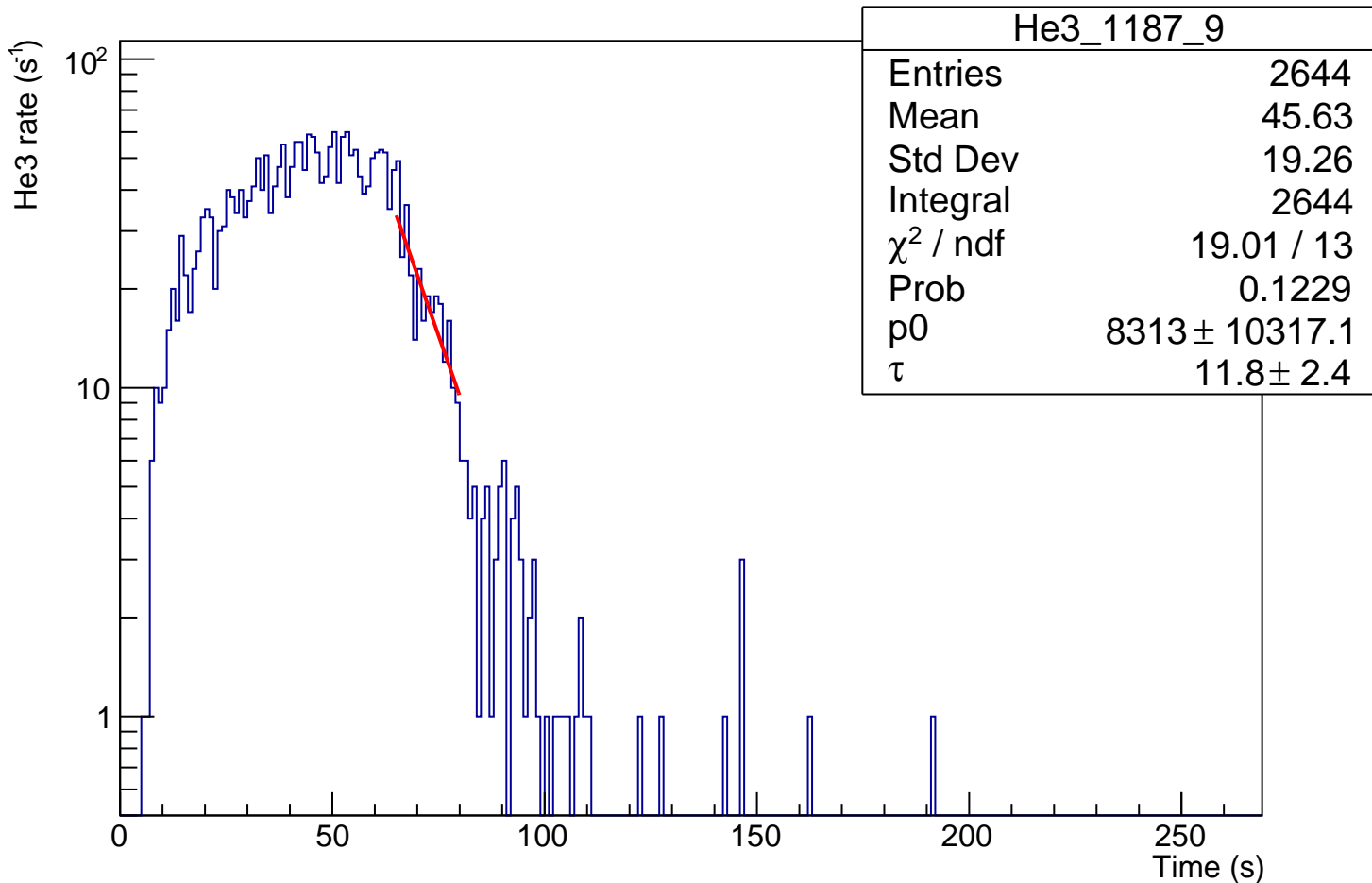




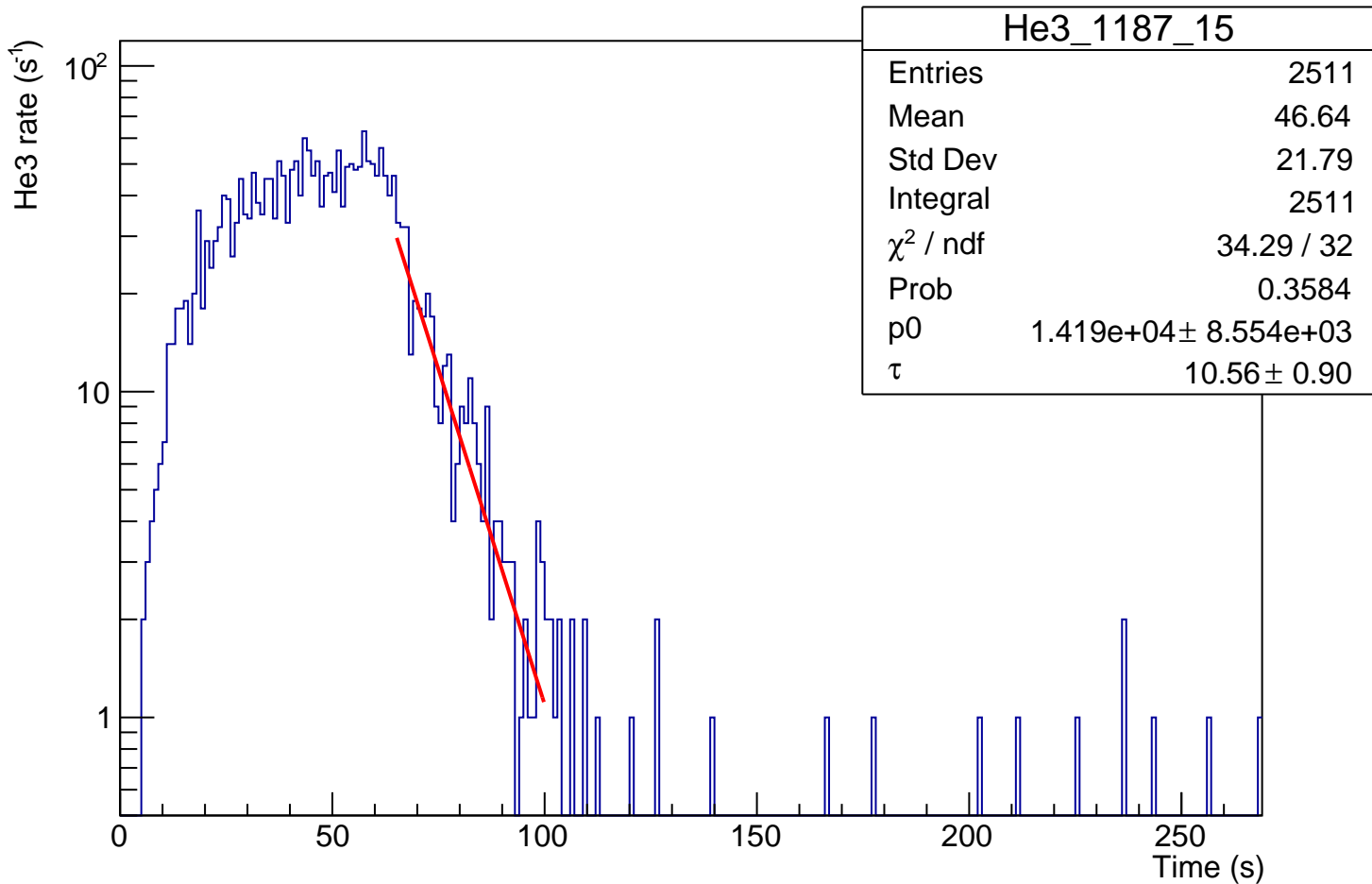
# He3 detector rate



# He3 detector rate



# He3 detector rate



**Average lifetime from He3 data:**

$$\tau = 10.4031567139 \pm 0.0541129297783 \text{ s}$$