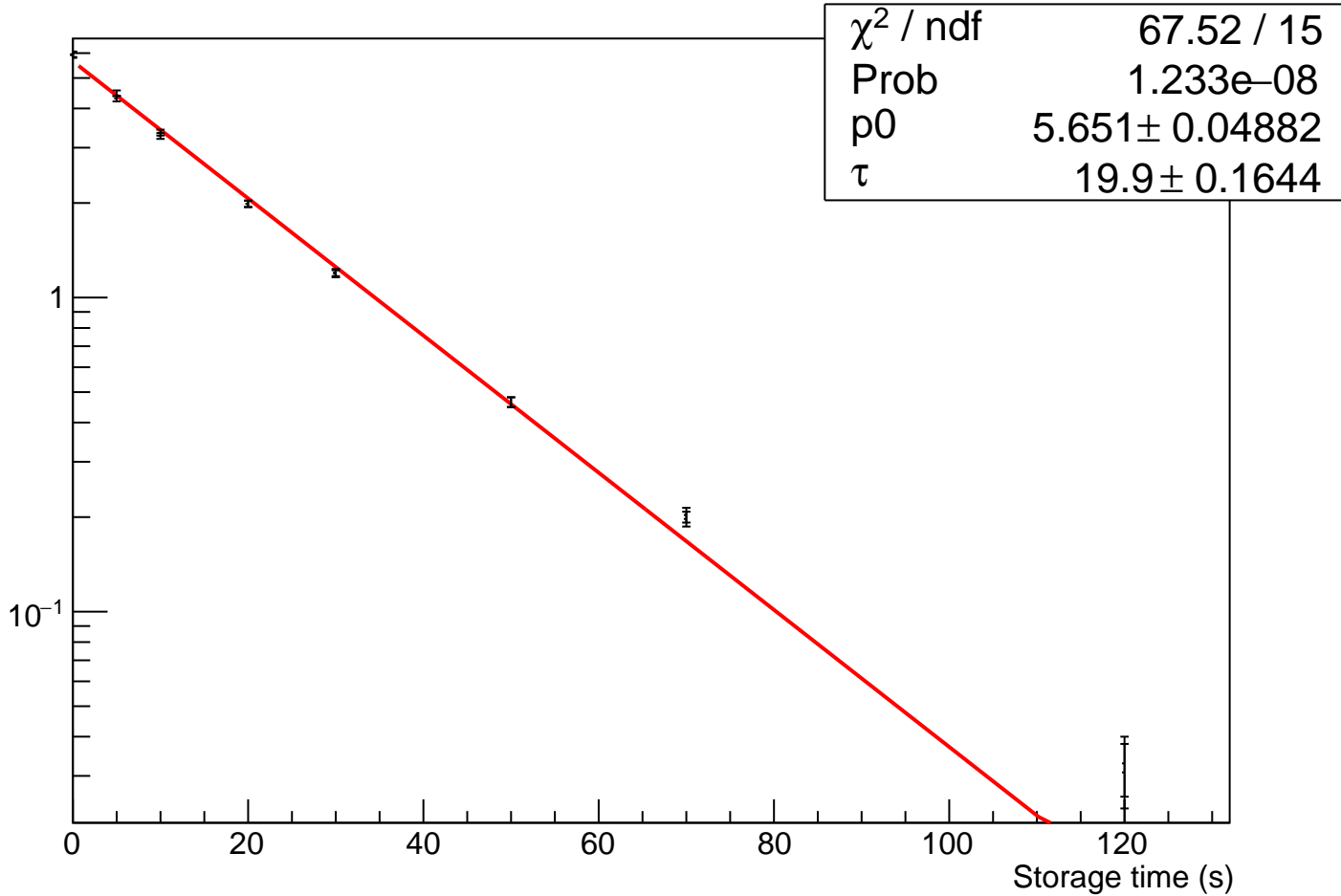


UCN-count-to-monitor ratio



UCN-count-to-monitor ratio

 $10^{-1}$ 

1

0

20

40

60

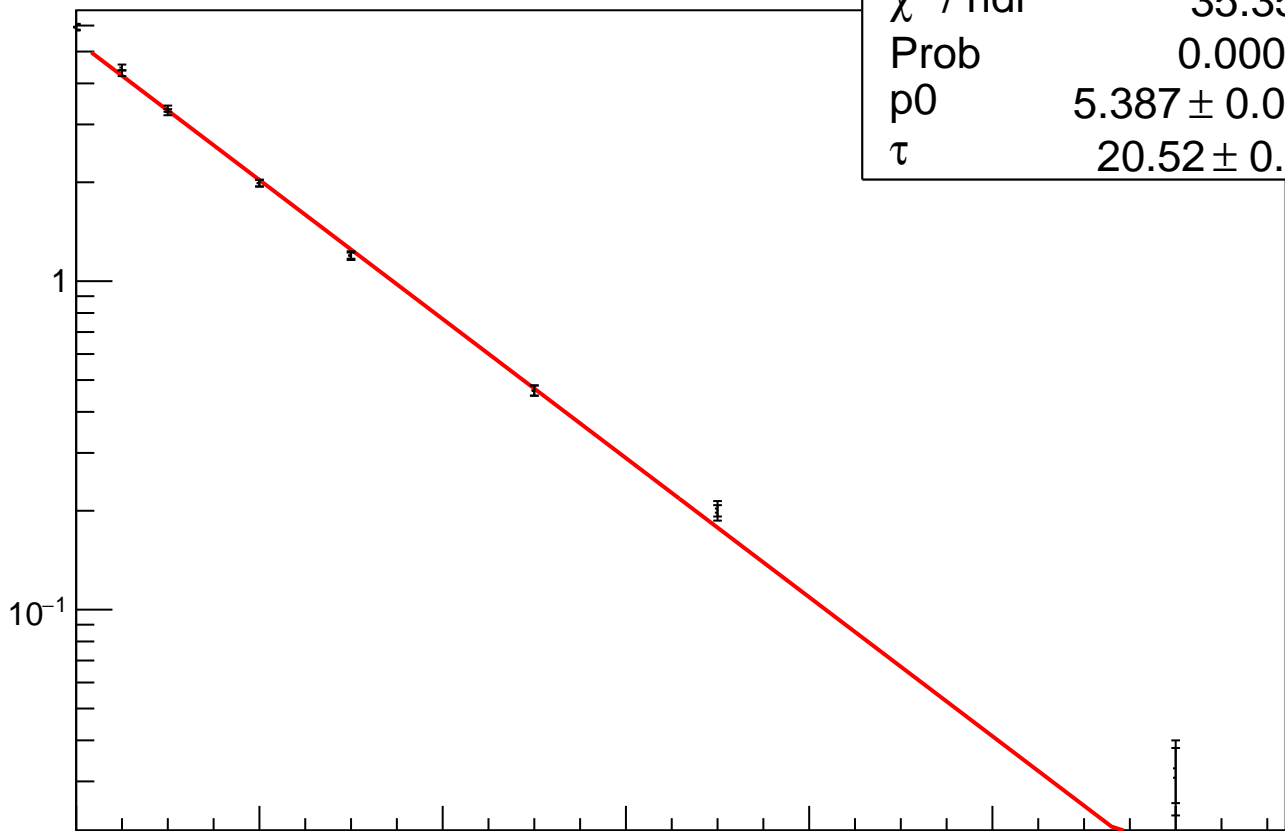
80

100

120

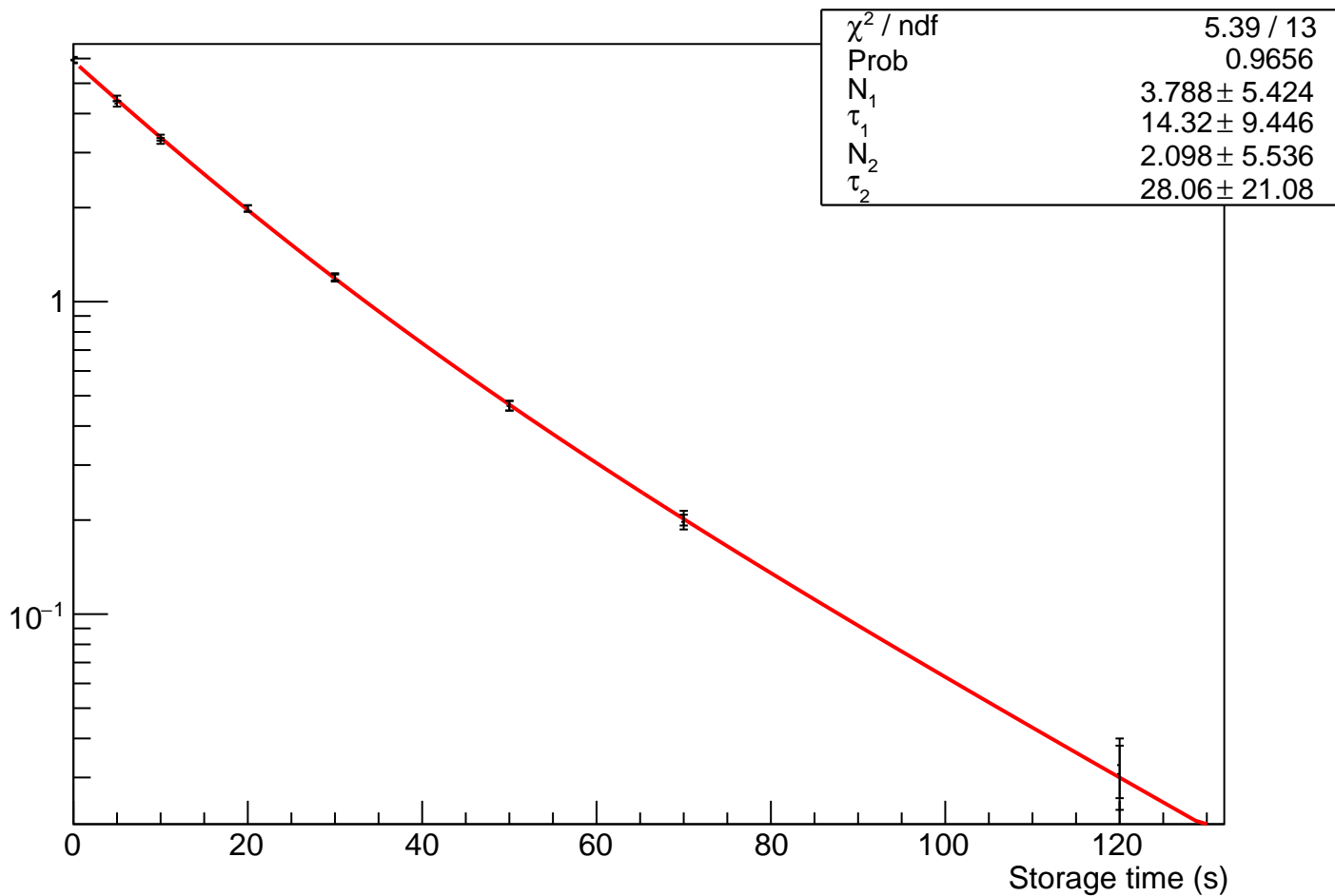
Storage time (s)

$\chi^2 / \text{ndf}$	35.35 / 12
Prob	0.0004123
p0	$5.387 \pm 0.06586$
$\tau$	$20.52 \pm 0.2026$

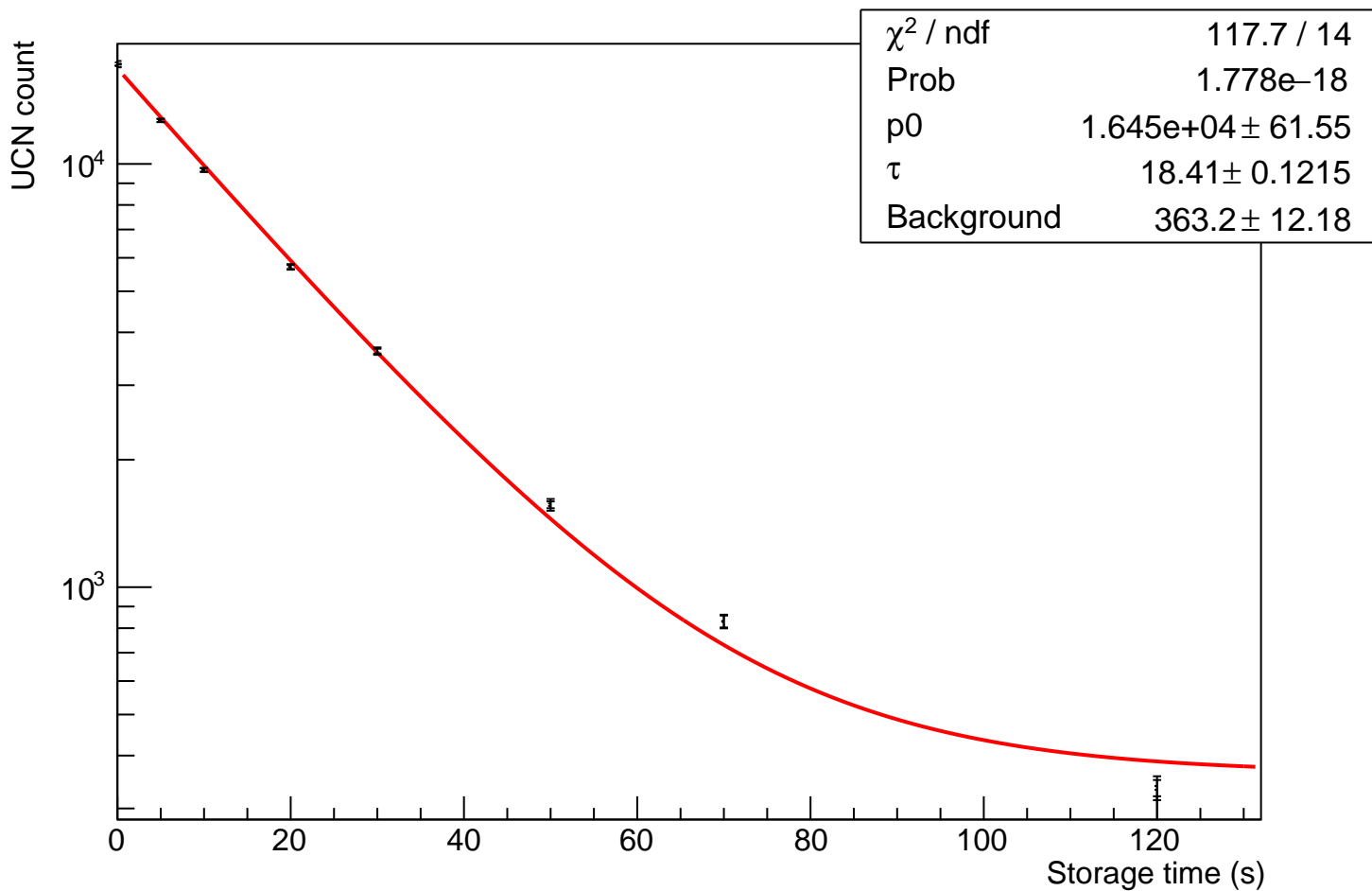


TCN18-051 (double exponential fit, with background subtracted, normalized to monitor detector)

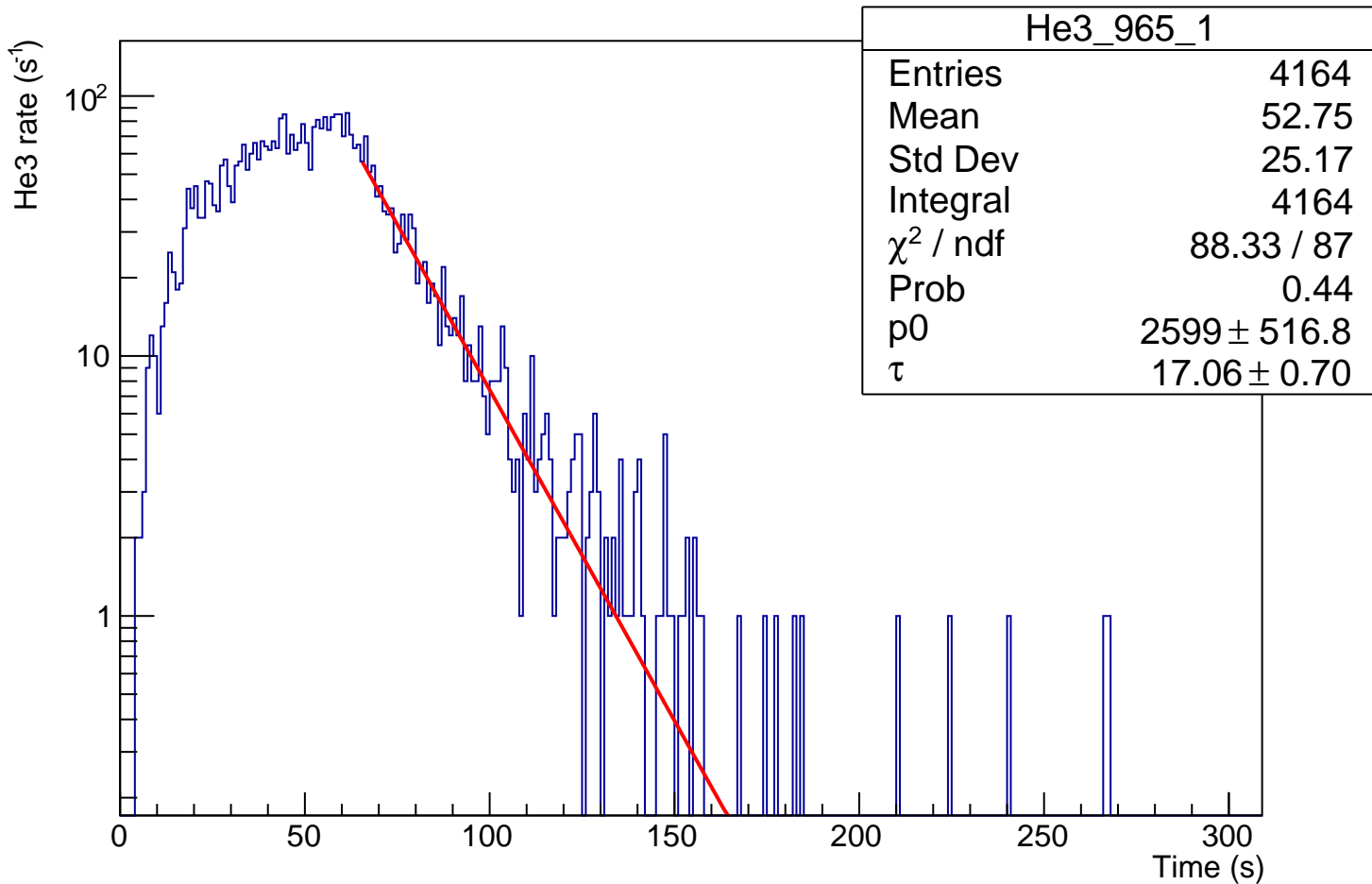
UCN-count-to-monitor ratio



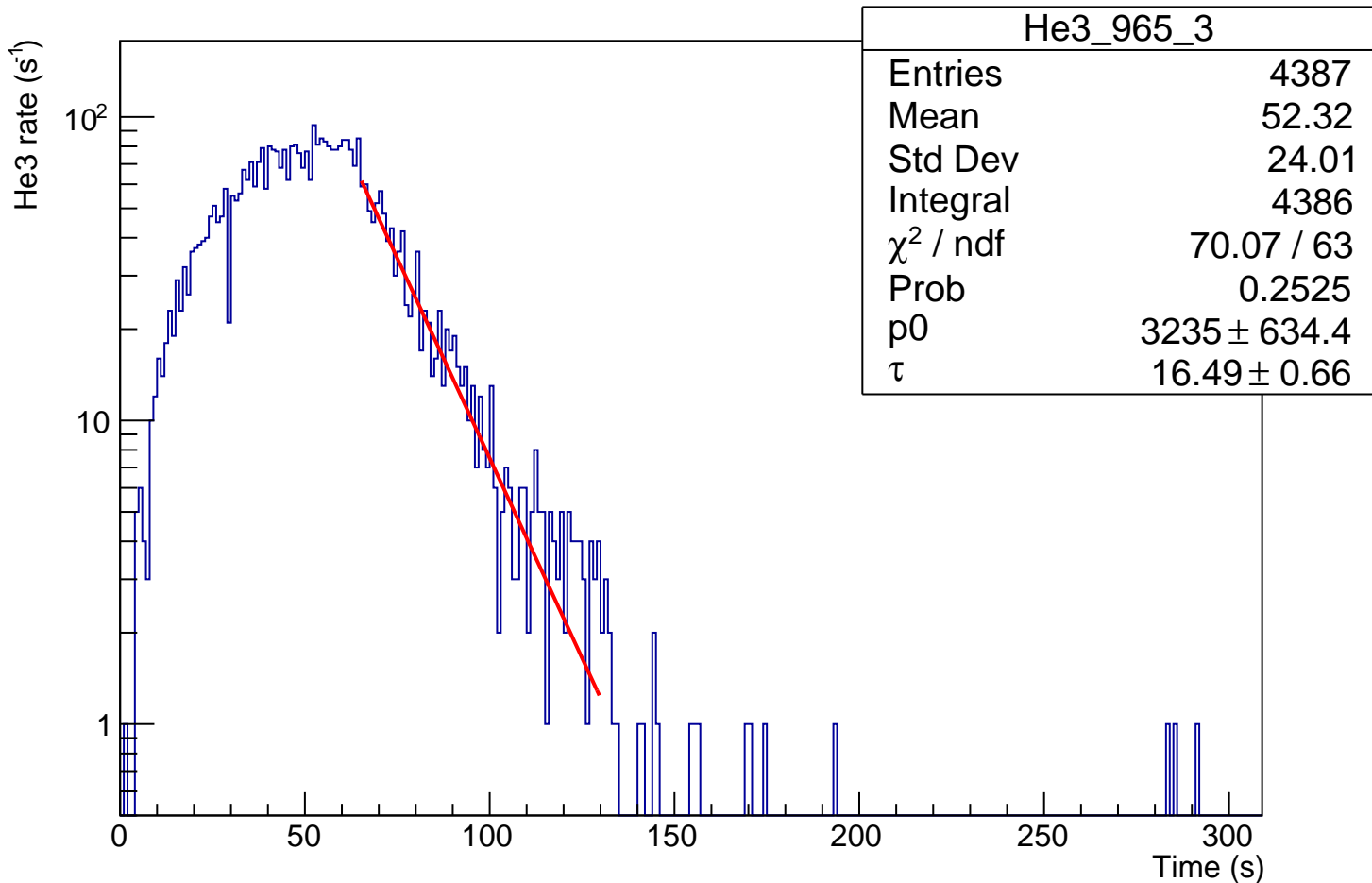
TCN18-051 (single exponential fit + background, unnormalized)



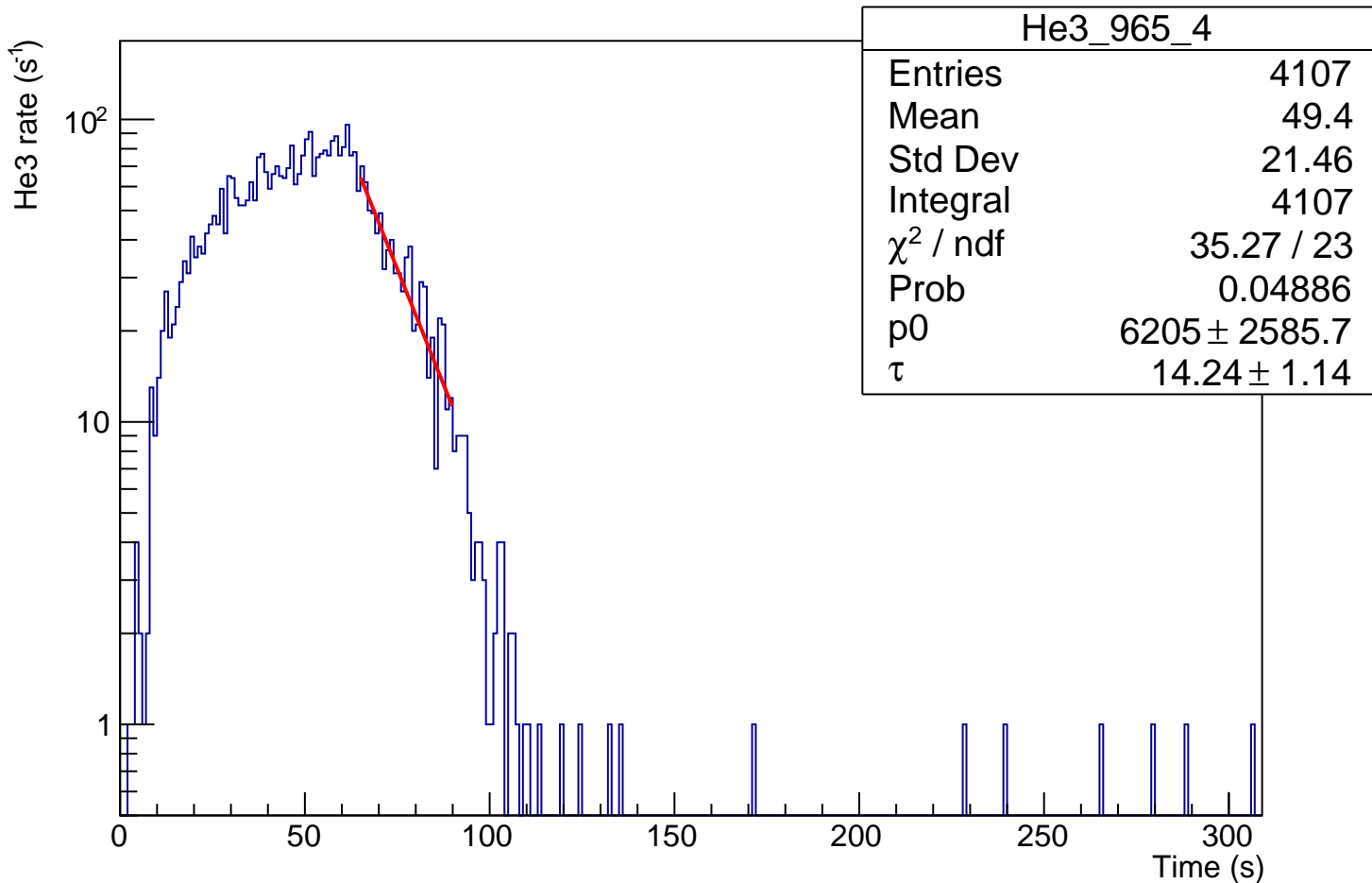
# He3 detector rate



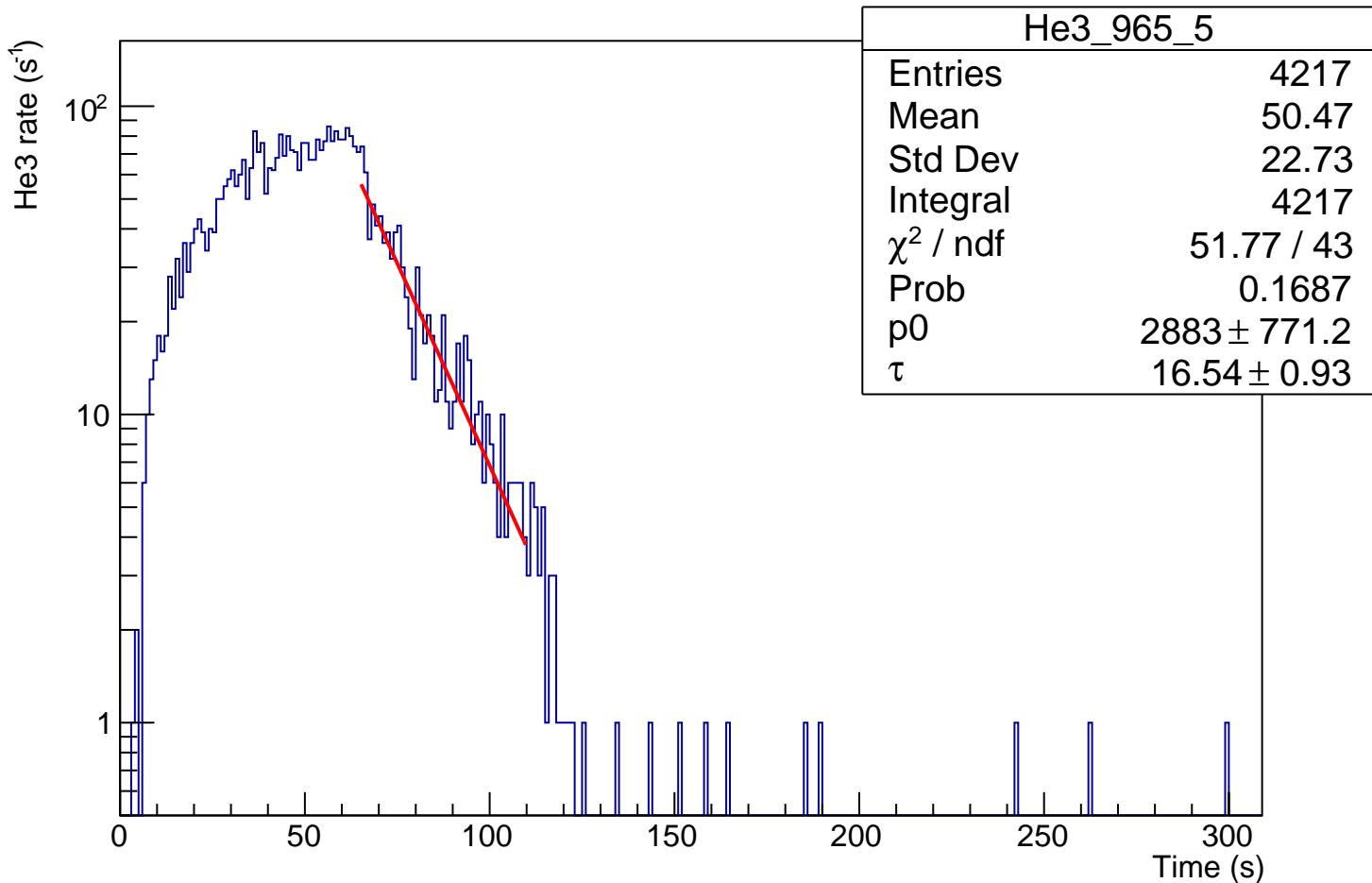
# He3 detector rate



# He3 detector rate

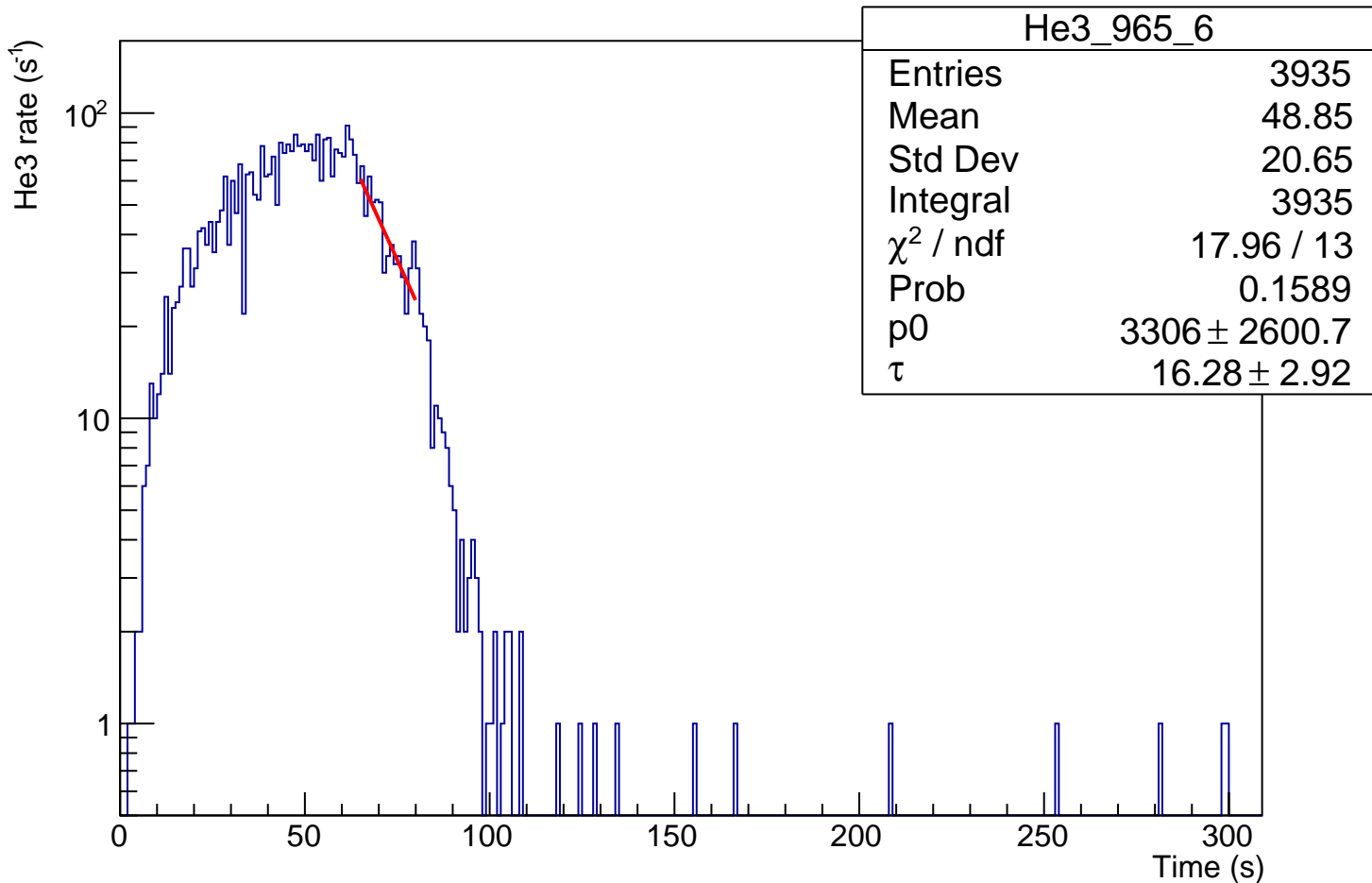


# He3 detector rate

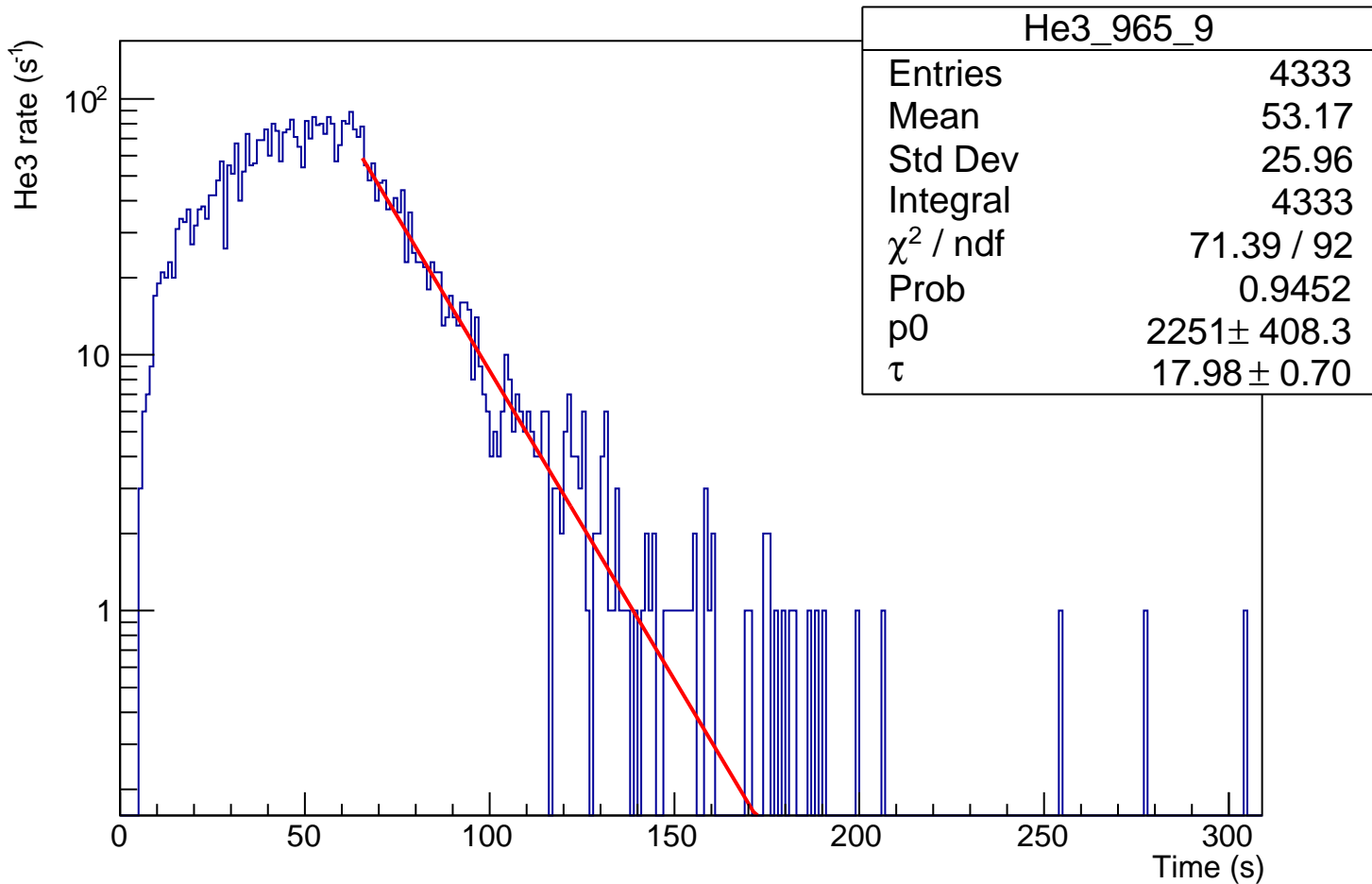




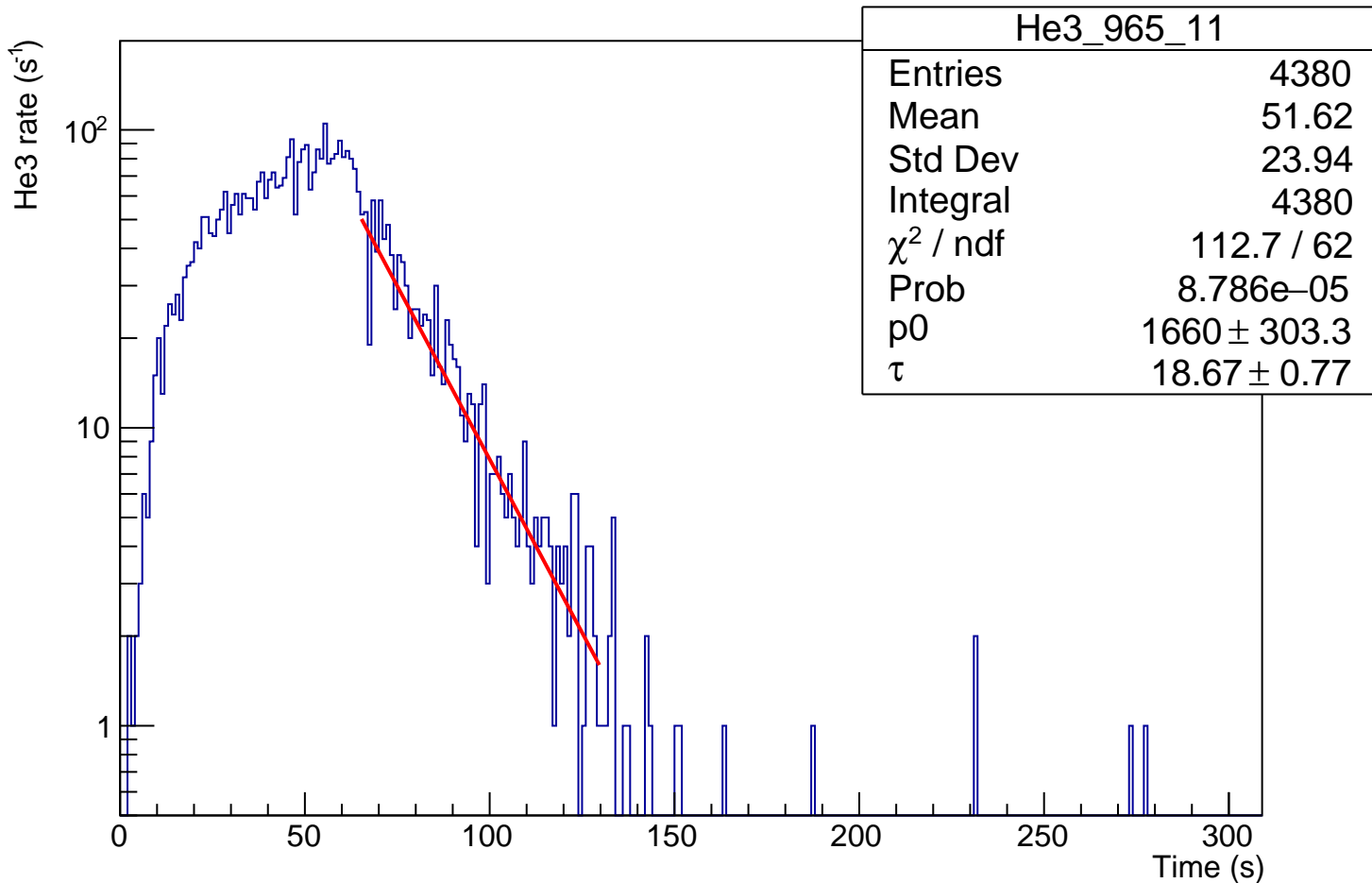
# He3 detector rate



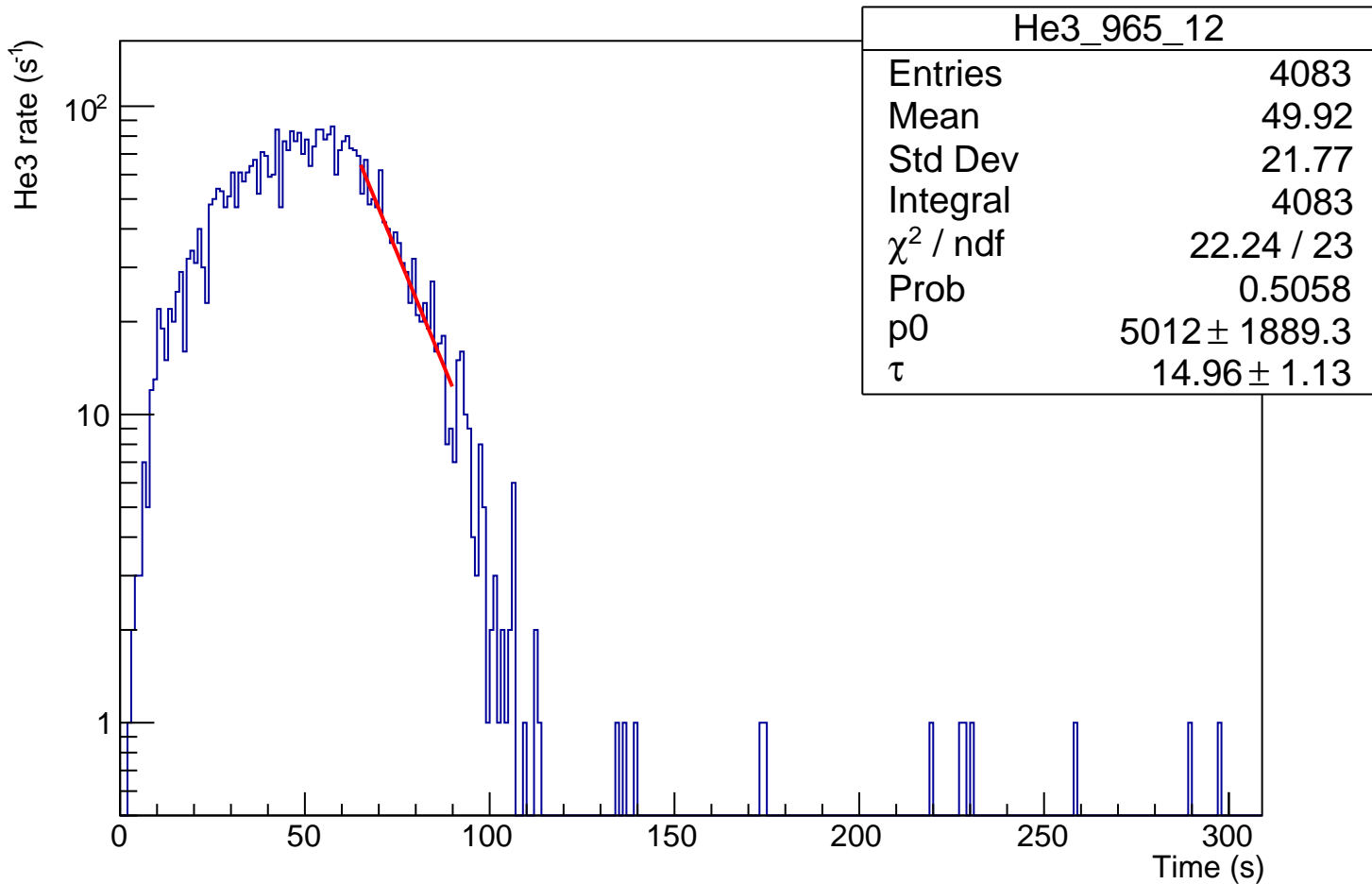
# He3 detector rate



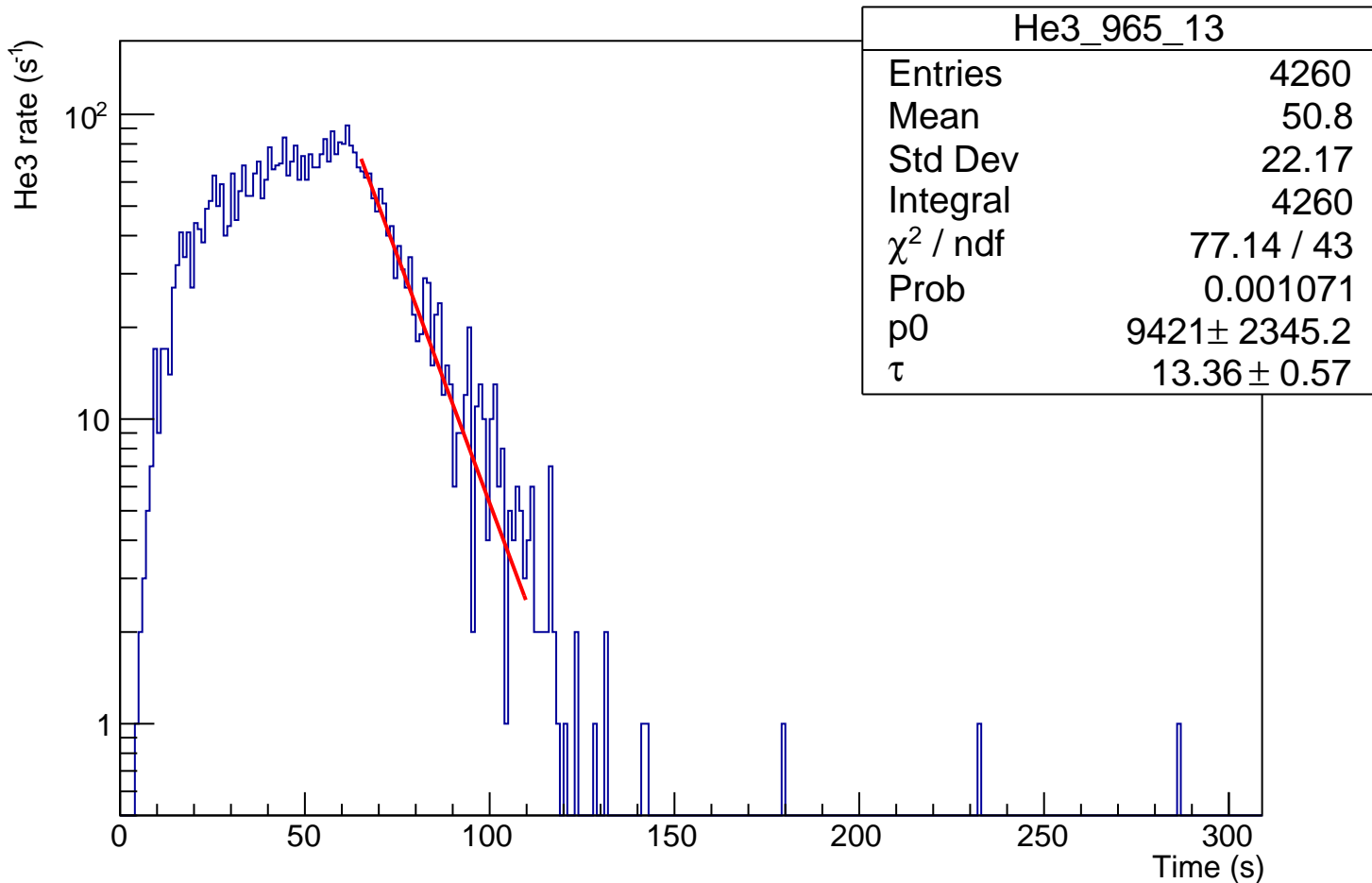
# He3 detector rate



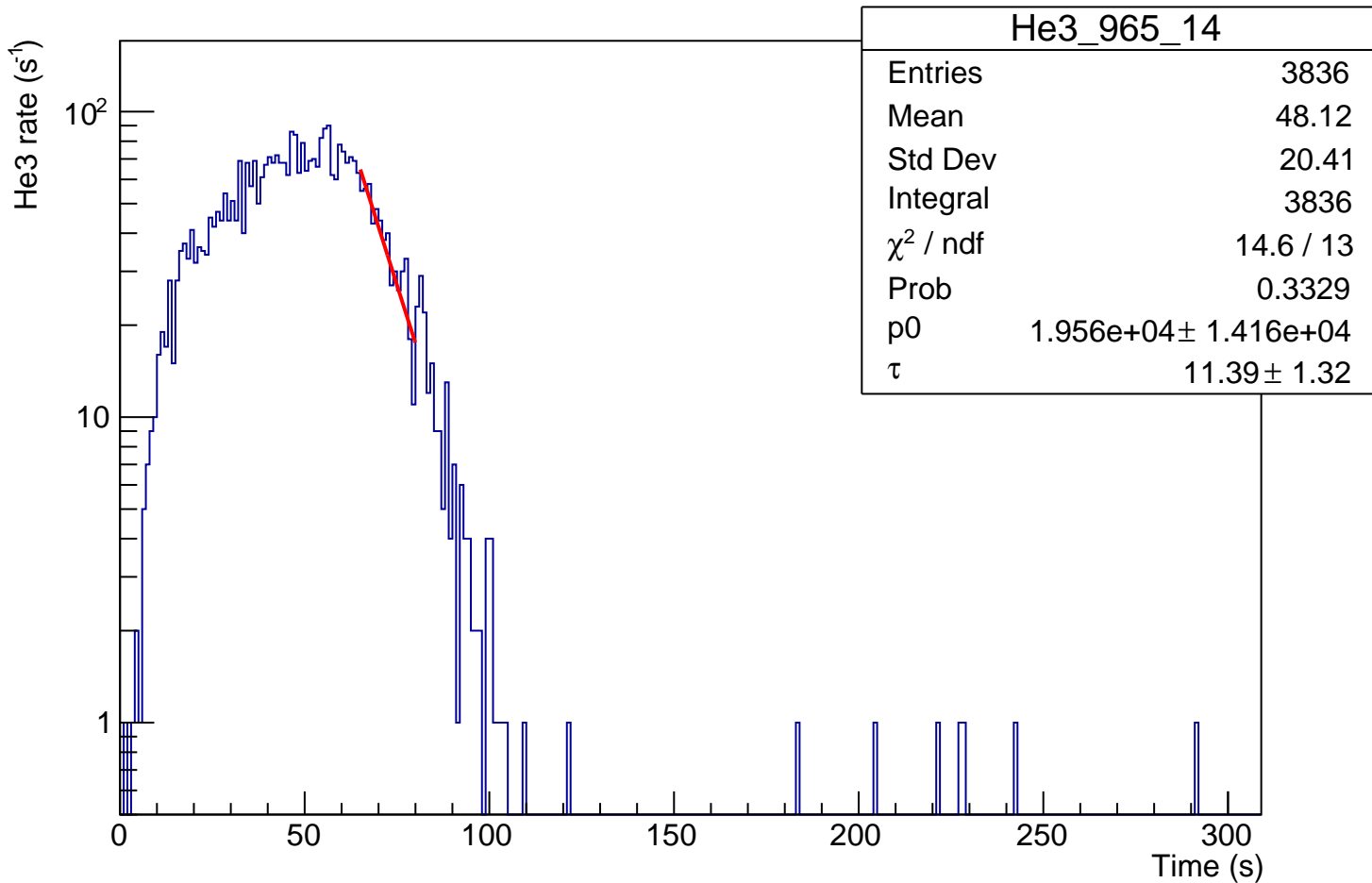
# He3 detector rate



# He3 detector rate



# He3 detector rate



**Average lifetime from He3 data:**

$$\tau = 15.9783884507 \pm 0.00474492448239 \text{ s}$$