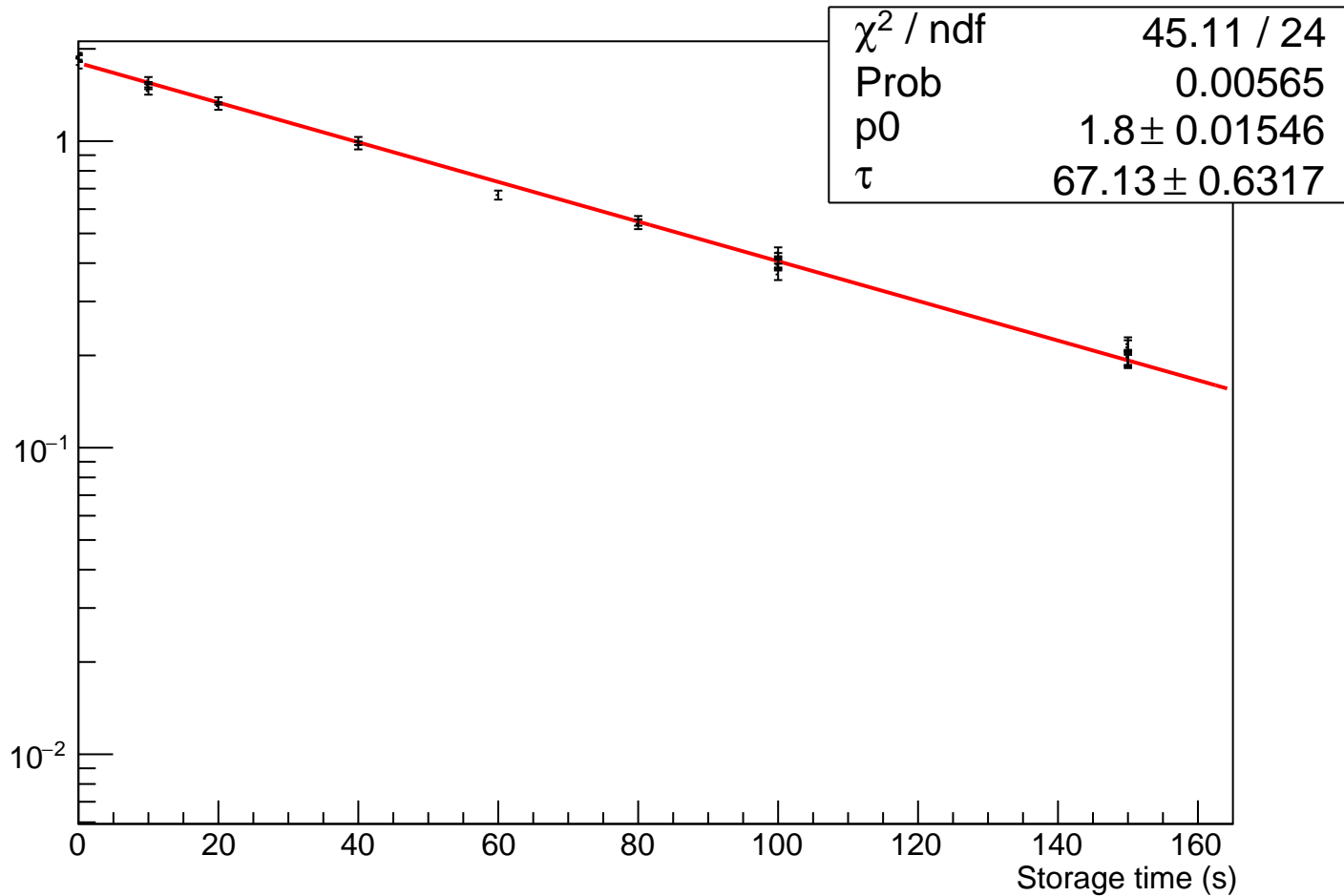
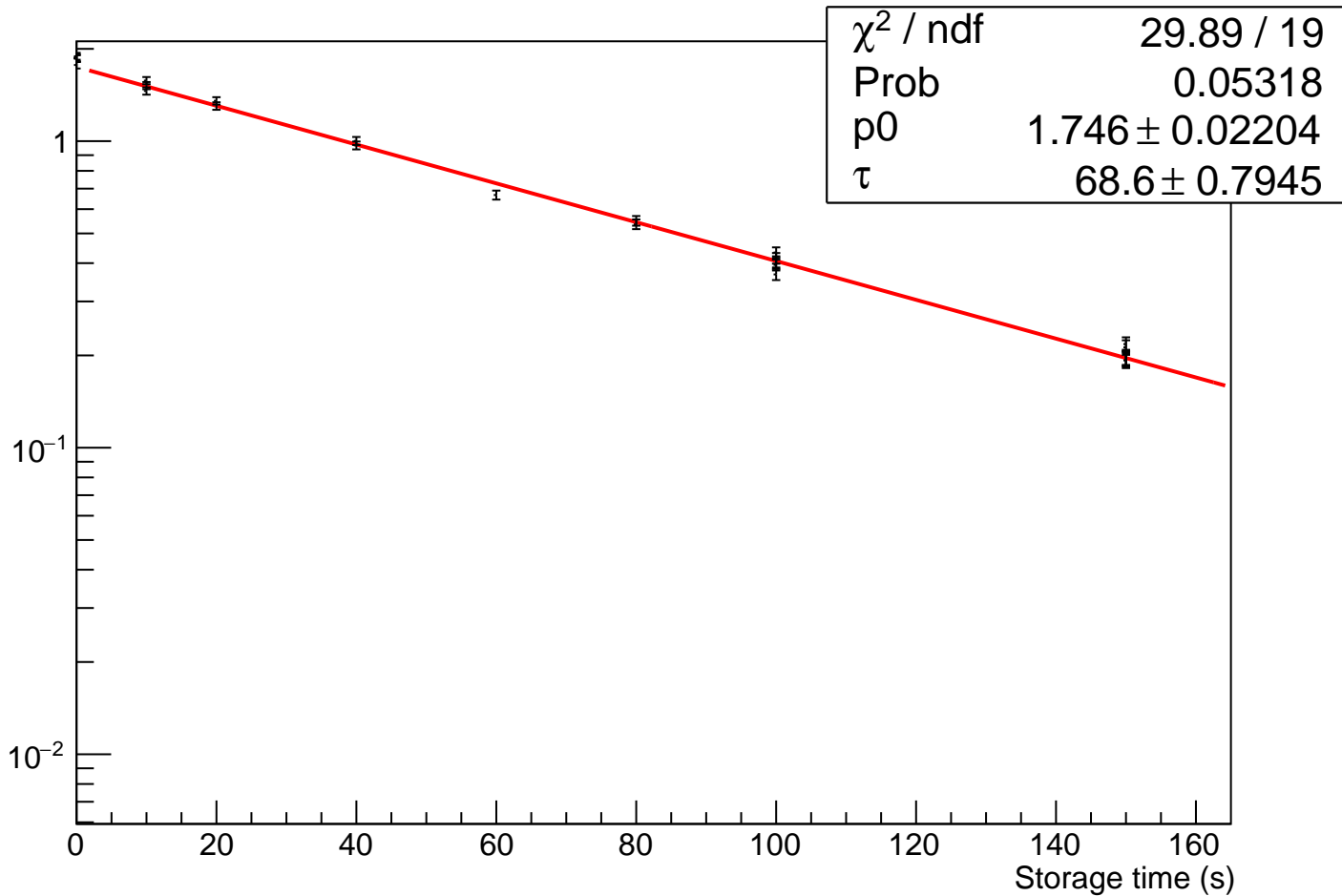


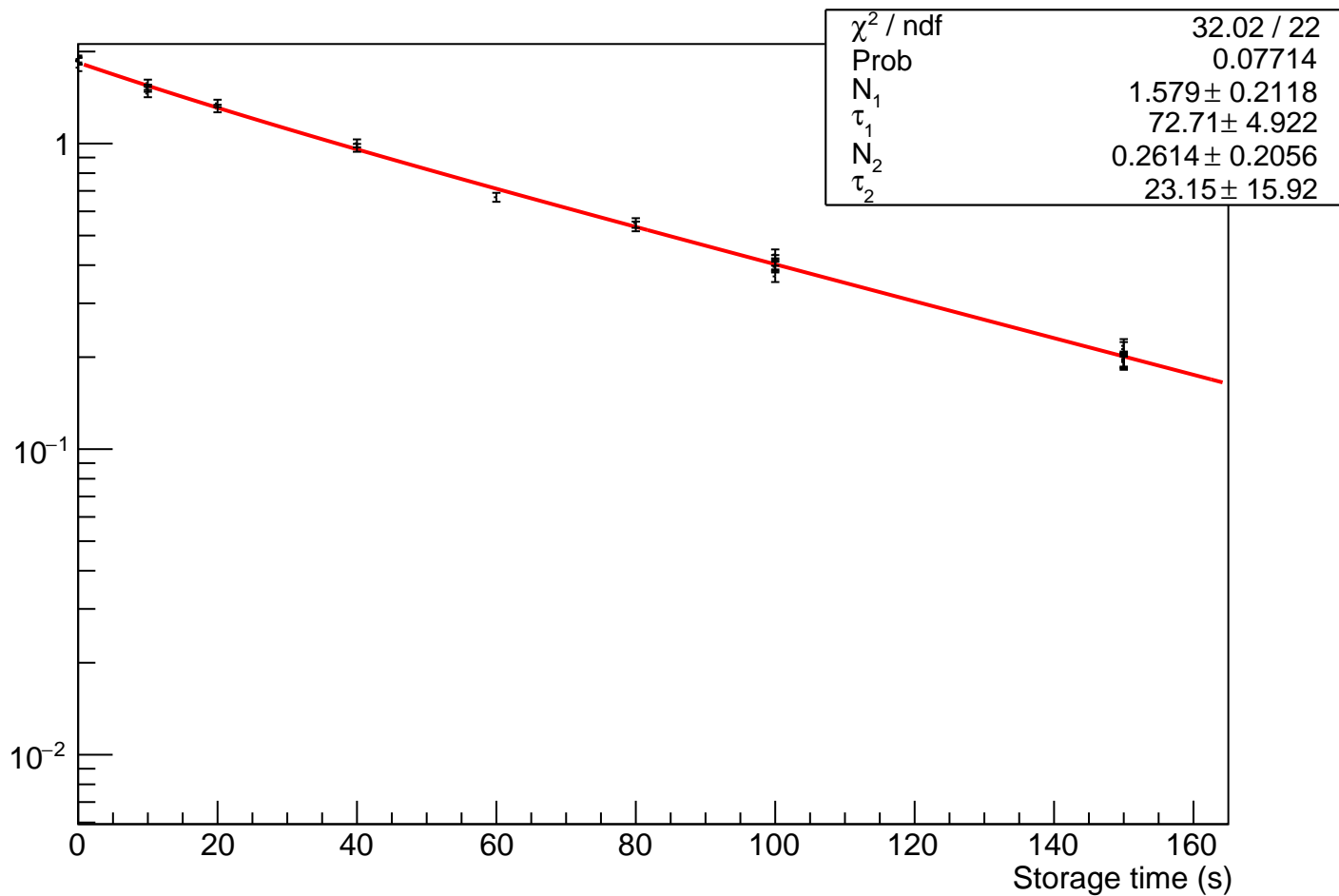
UCN-count-to-monitor ratio



UCN-count-to-monitor ratio



UCN-count-to-monitor ratio



TCN18-125 (NiP bottle, unbaked) (single exponential fit + background, unnormalized)

UCN count

$10^3$

0

20

40

60

80

100

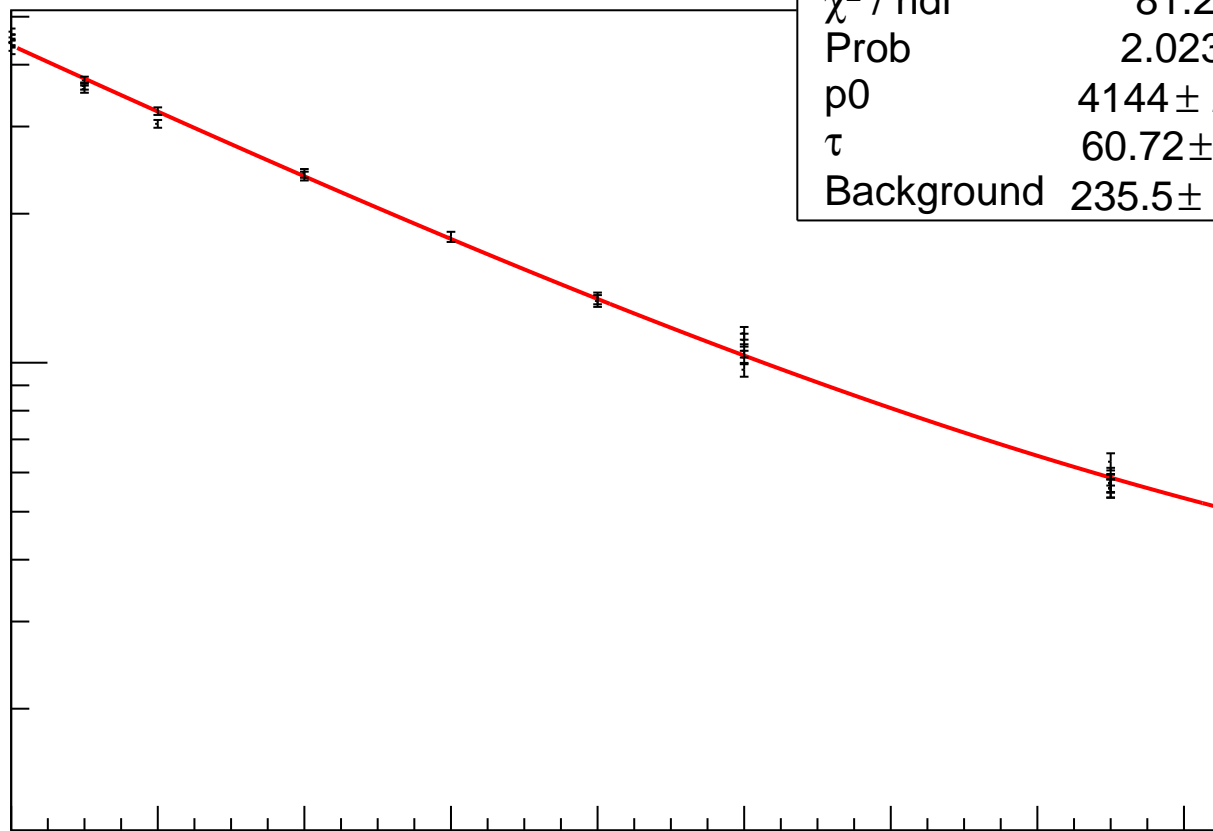
120

140

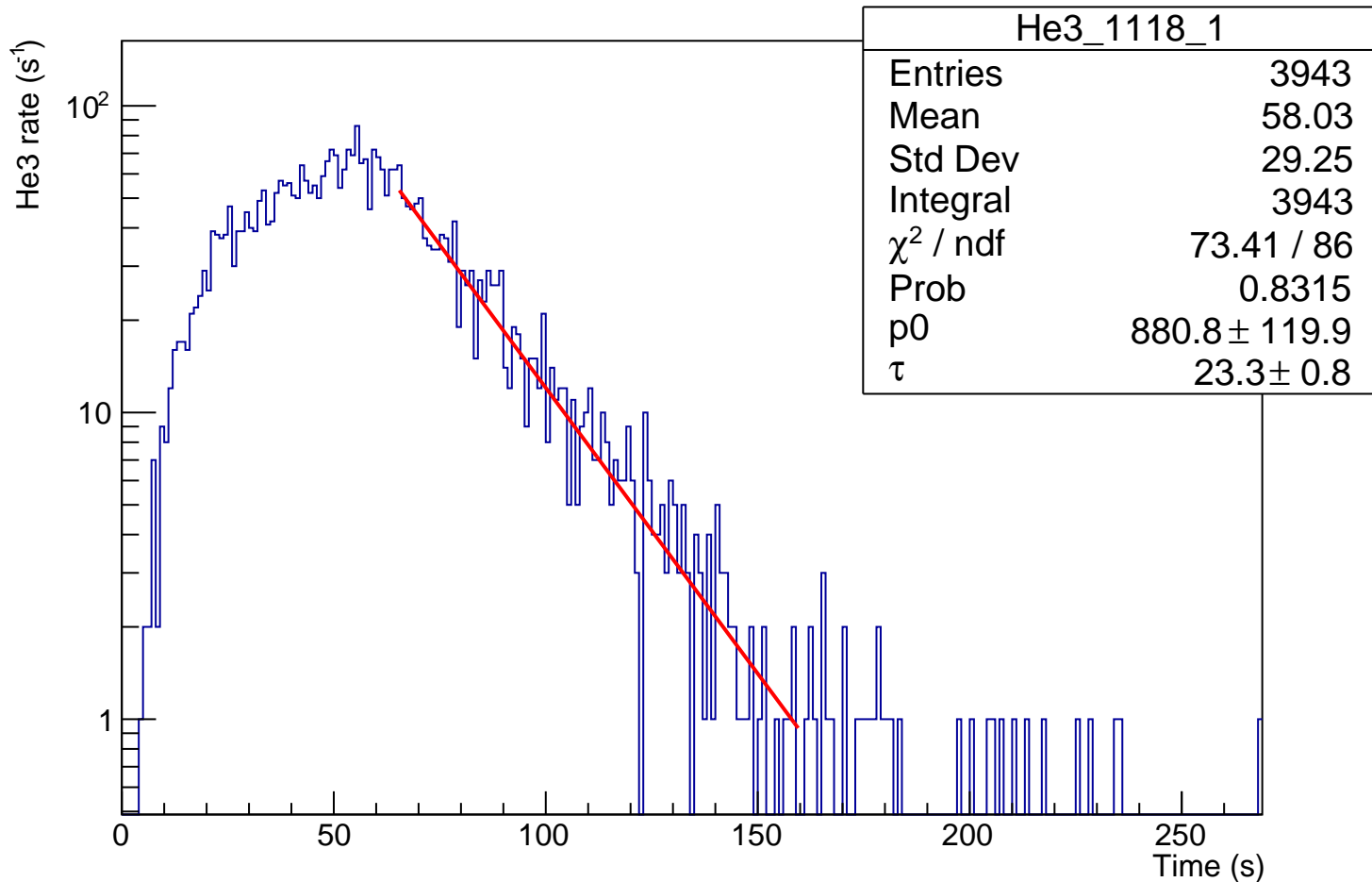
160

Storage time (s)

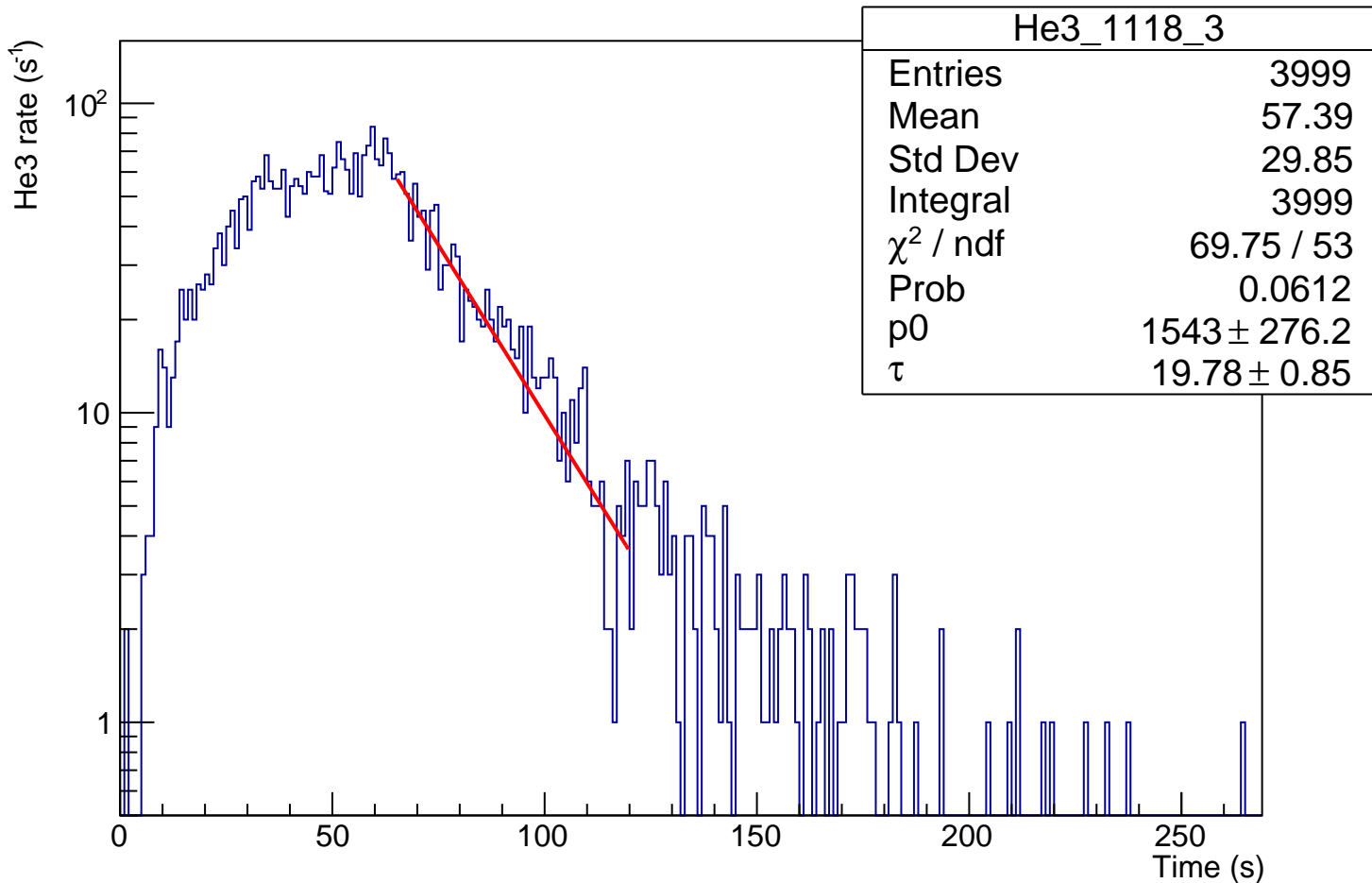
$\chi^2 / \text{ndf}$	81.21 / 23
Prob	2.023e-08
p0	$4144 \pm 28.94$
$\tau$	$60.72 \pm 1.34$
Background	$235.5 \pm 26.72$



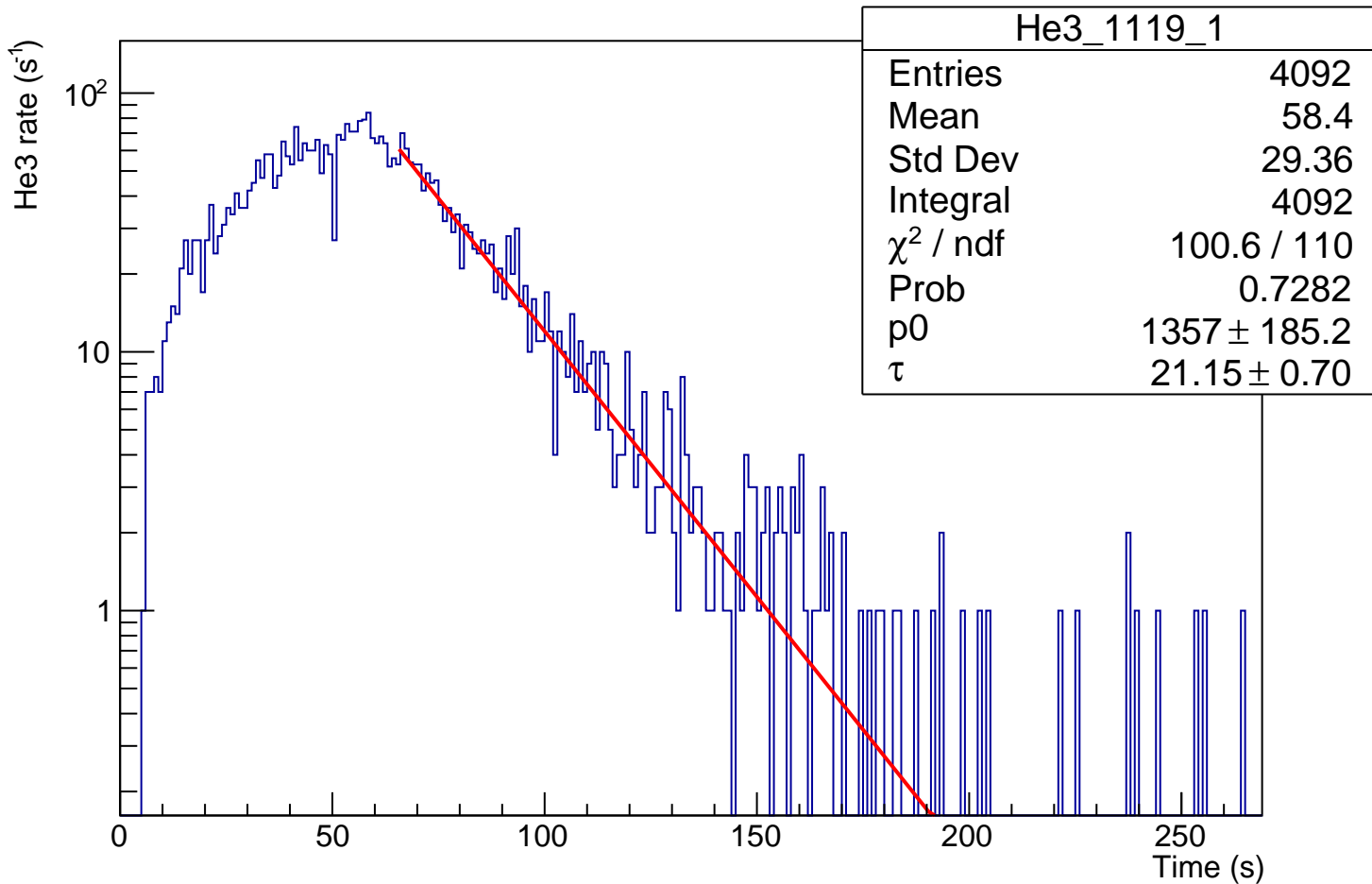
# He3 detector rate



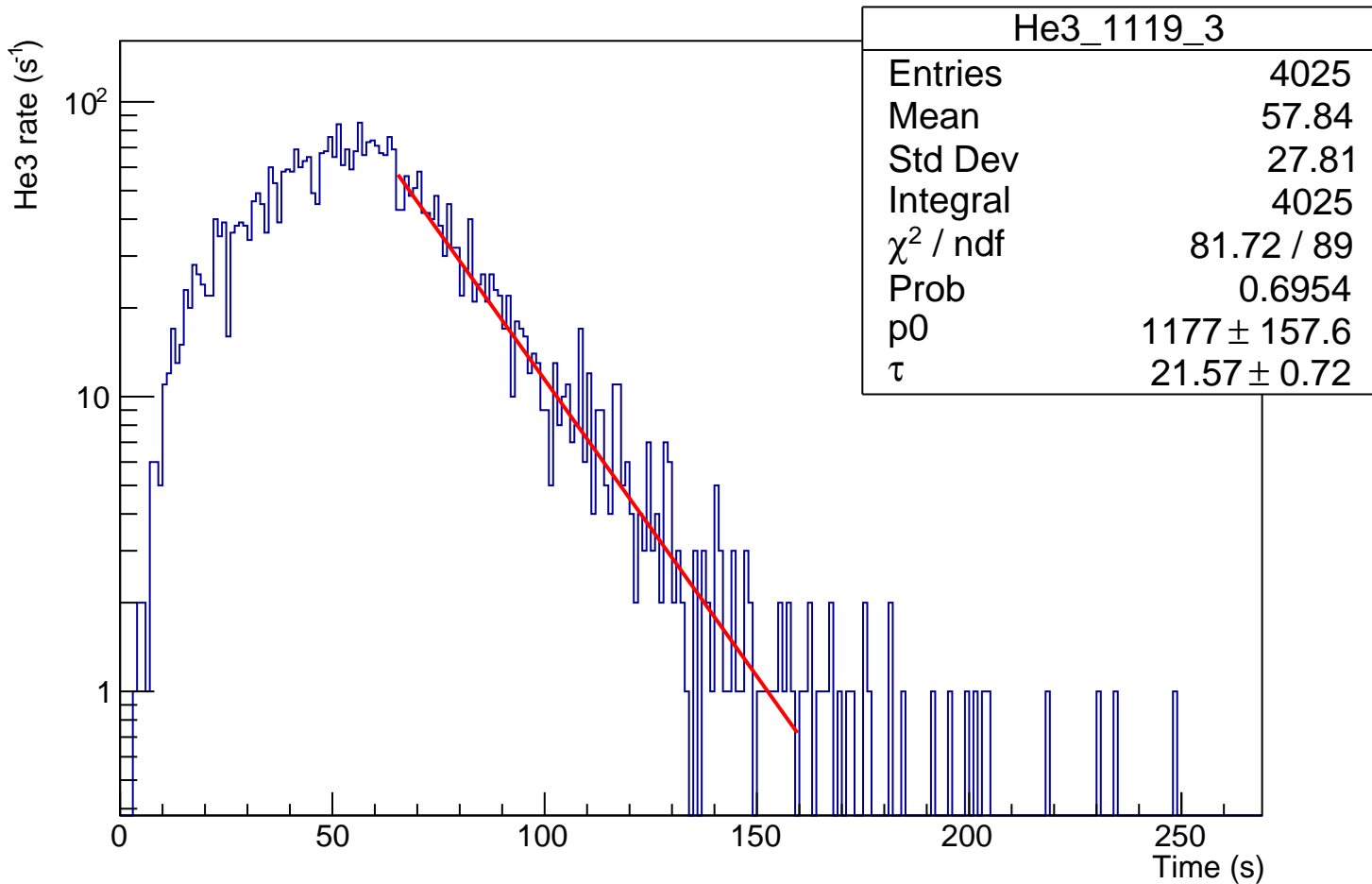
# He3 detector rate



# He3 detector rate

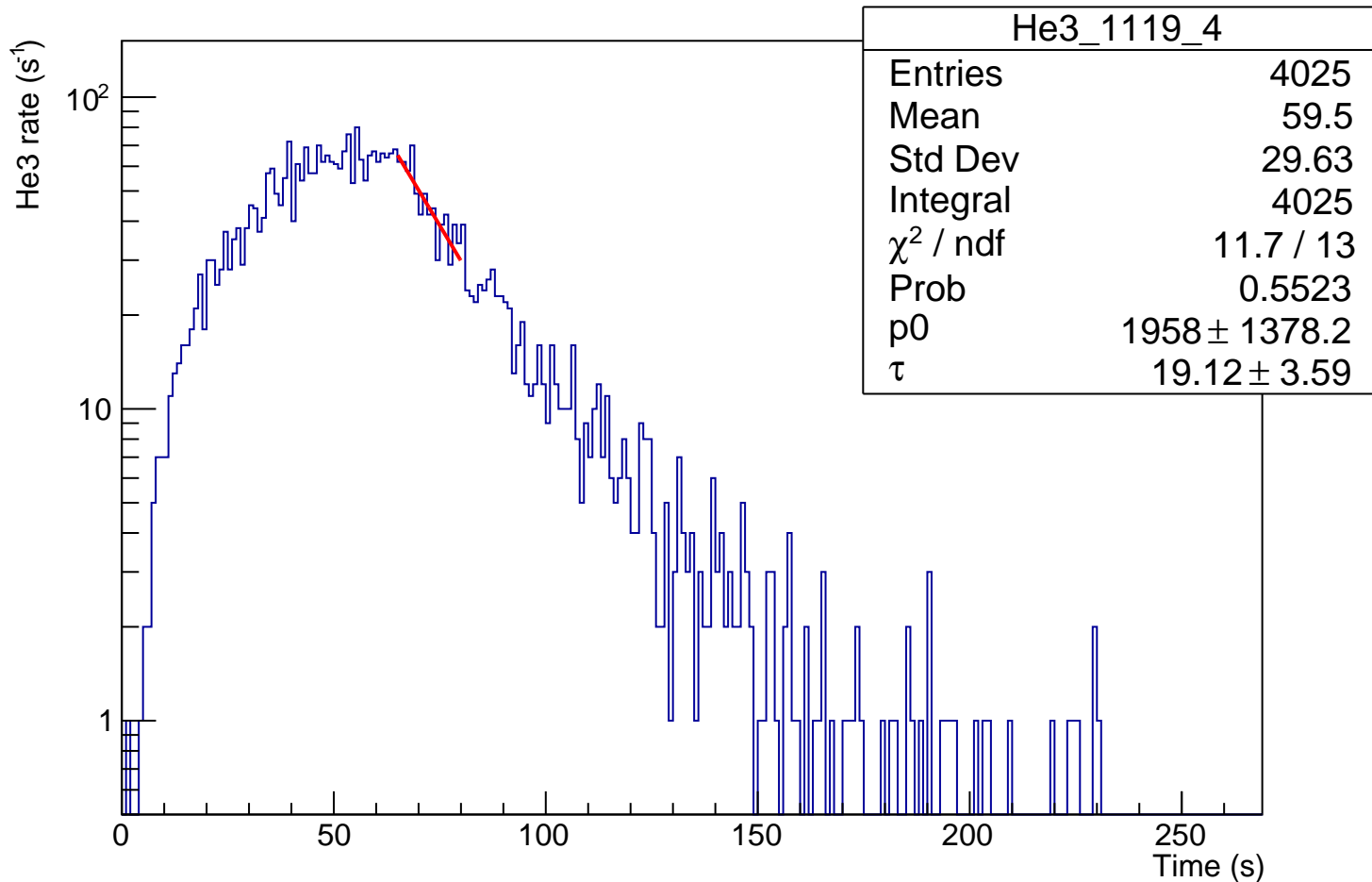


# He3 detector rate

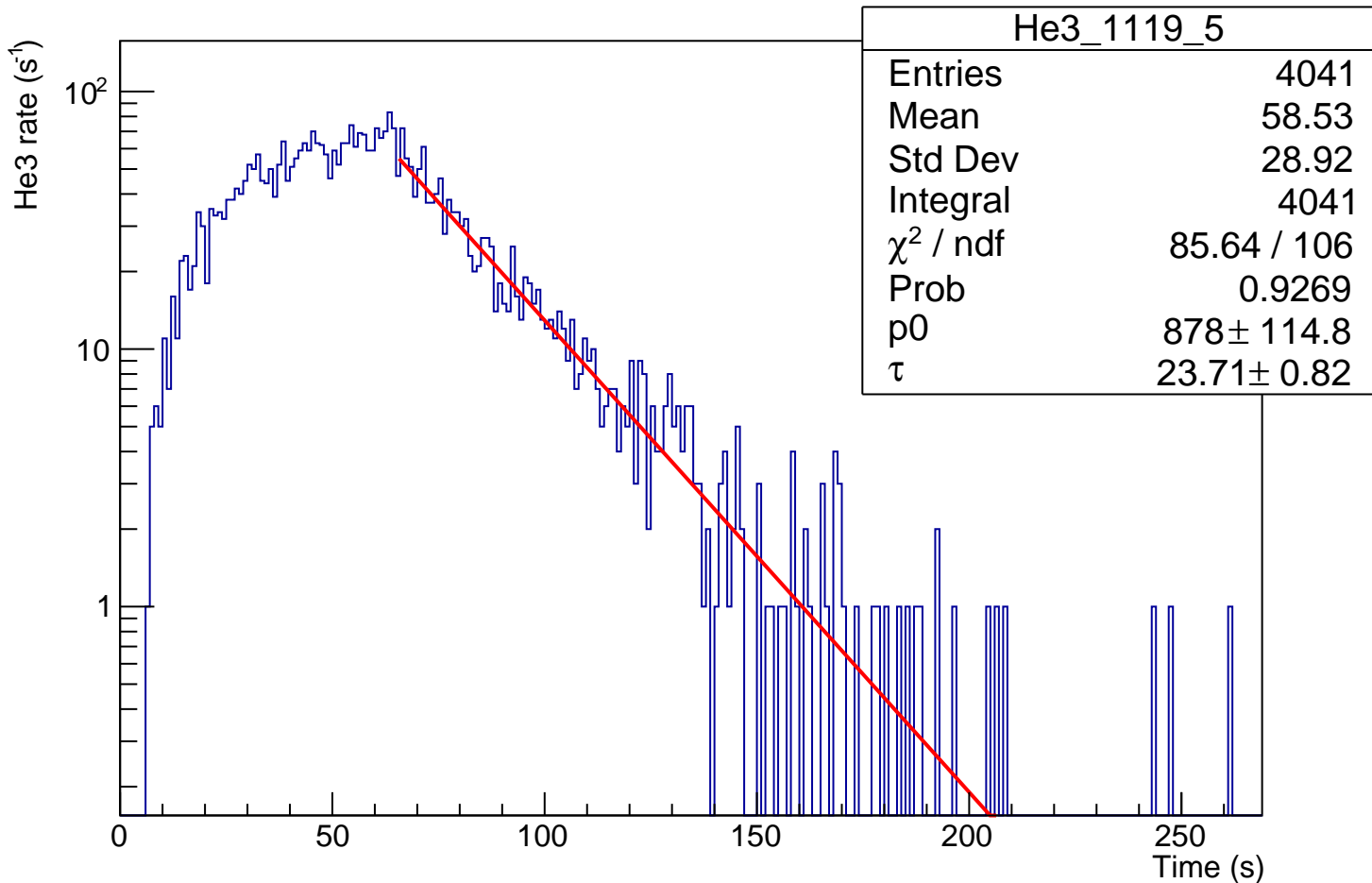




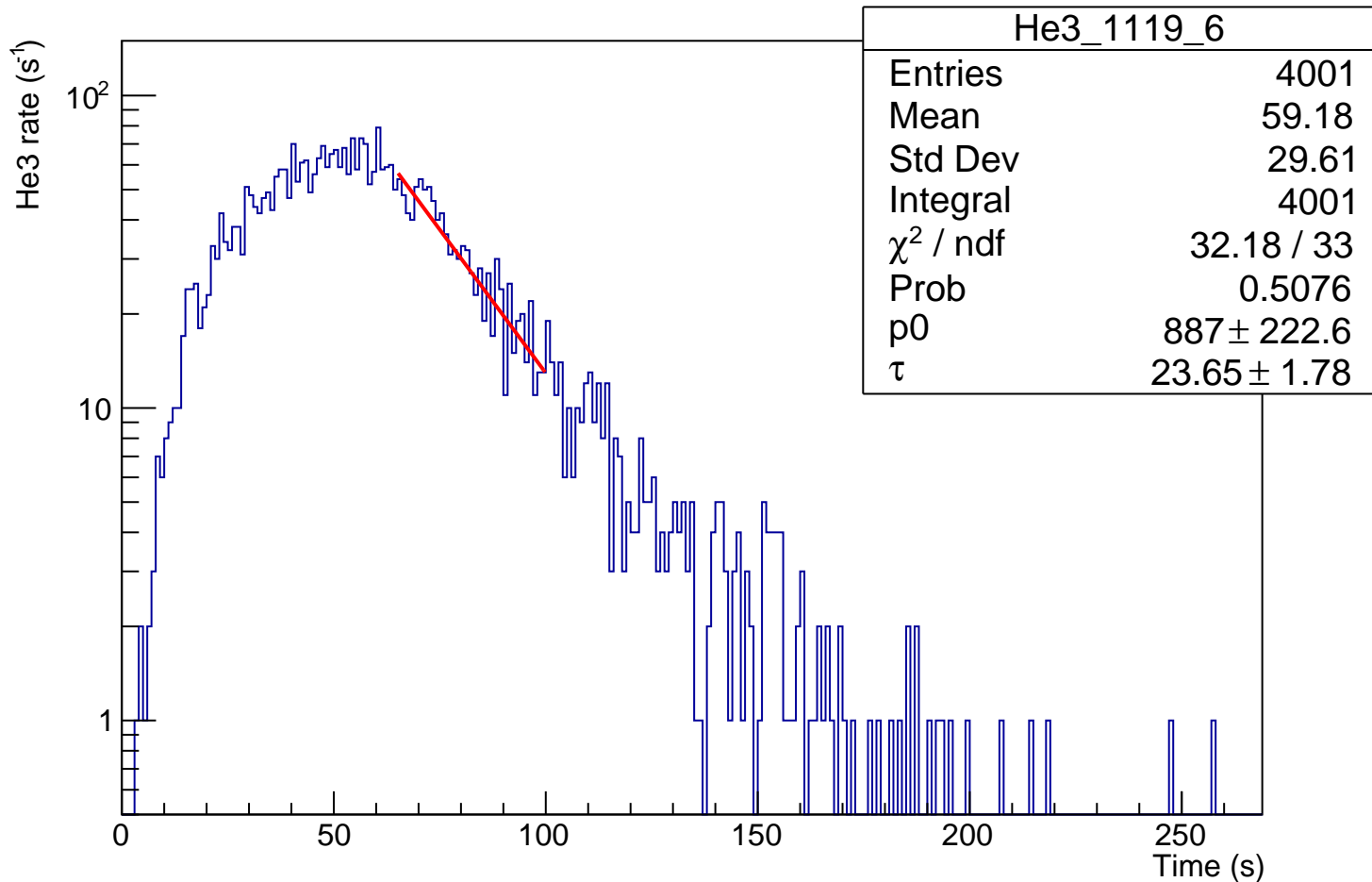
# He3 detector rate



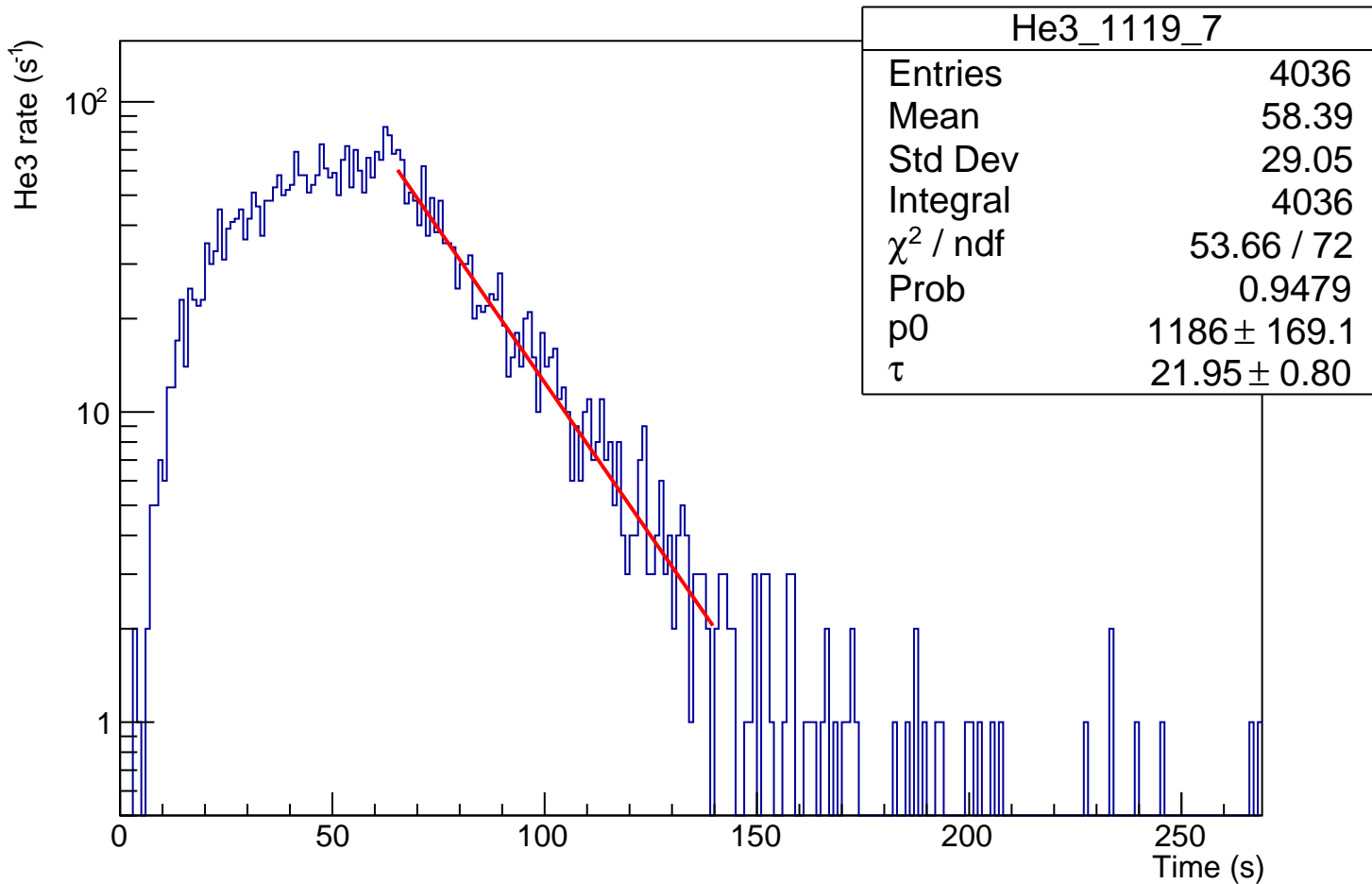
# He3 detector rate



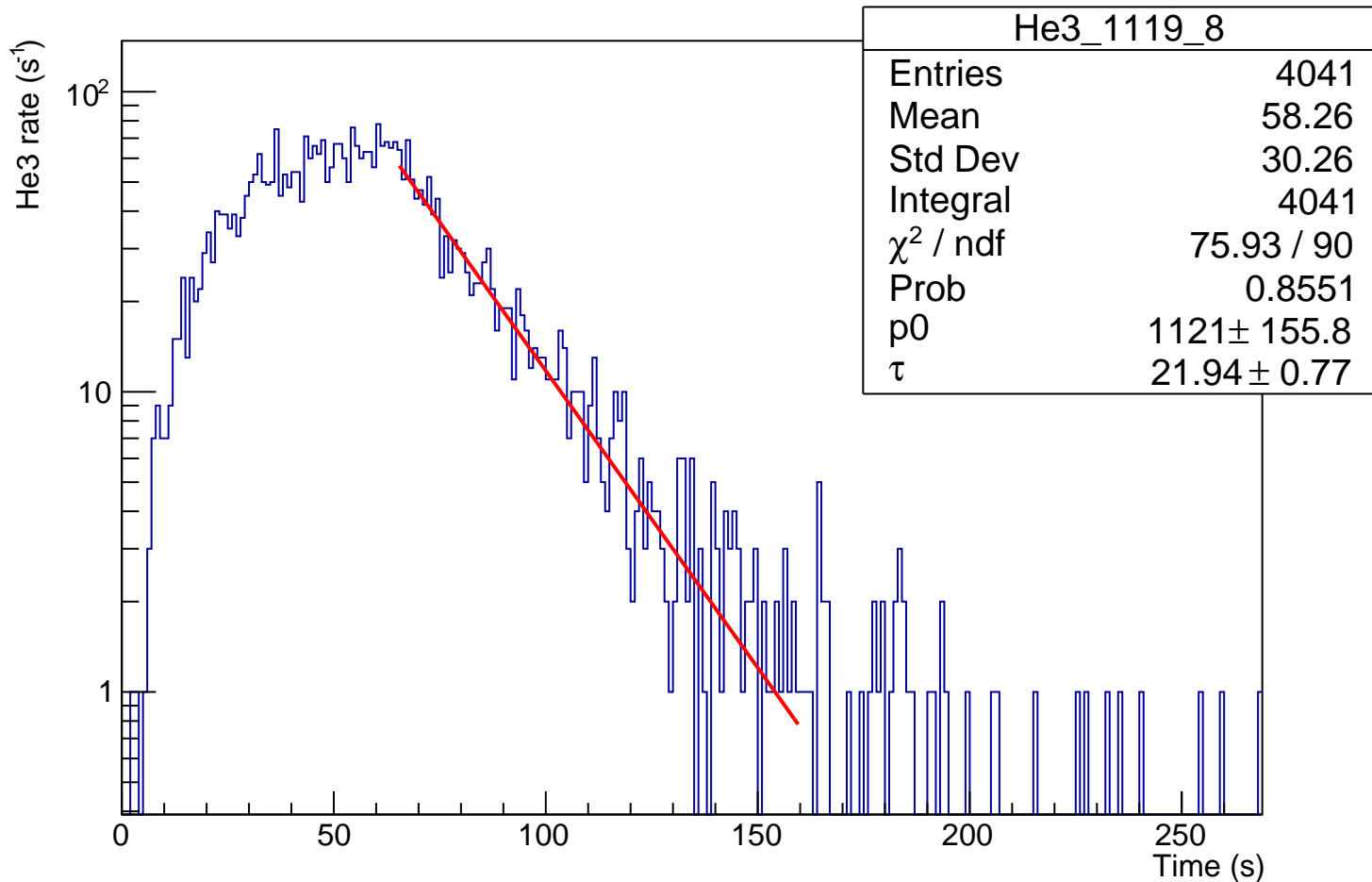
# He3 detector rate



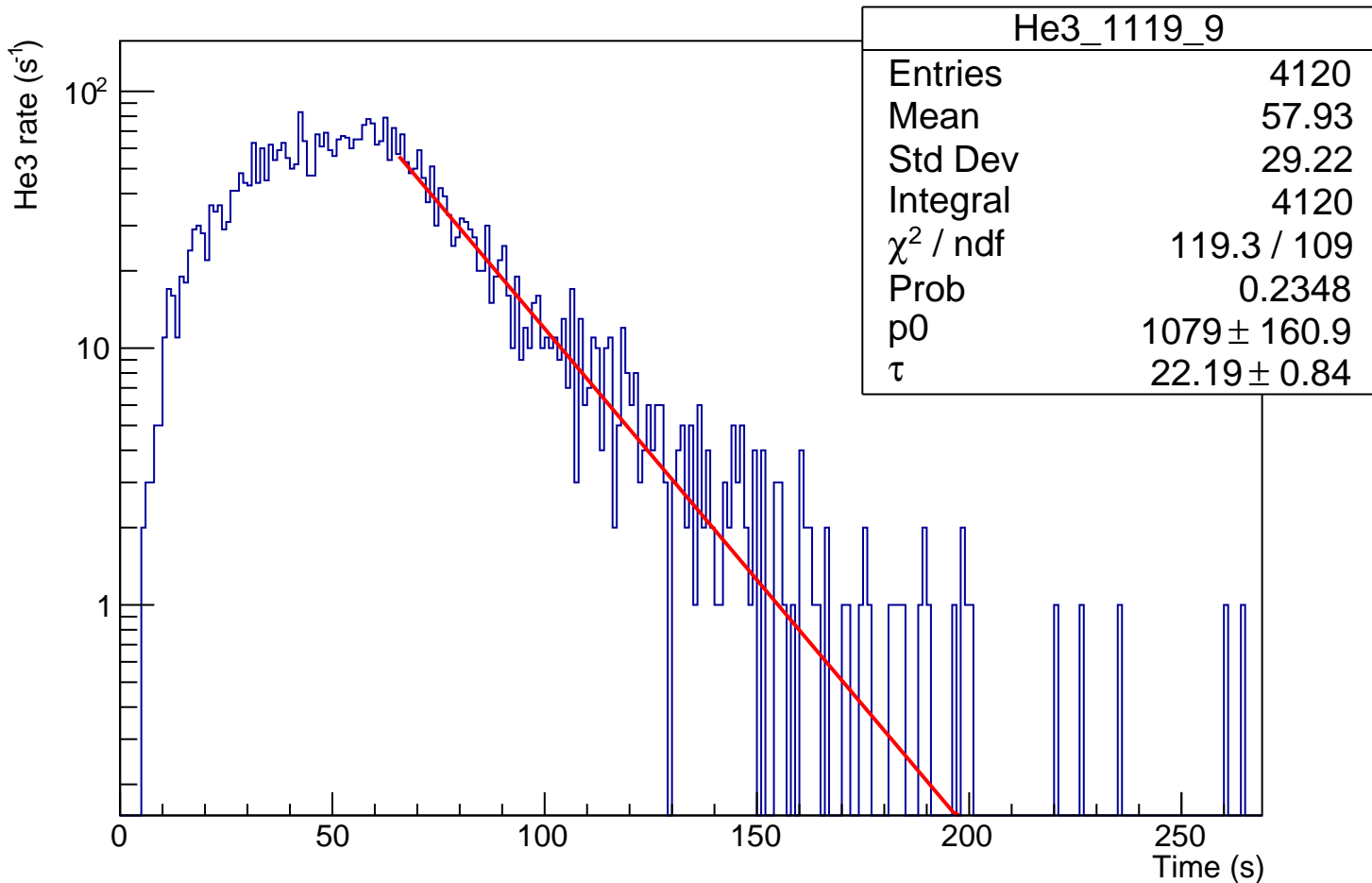
# He3 detector rate



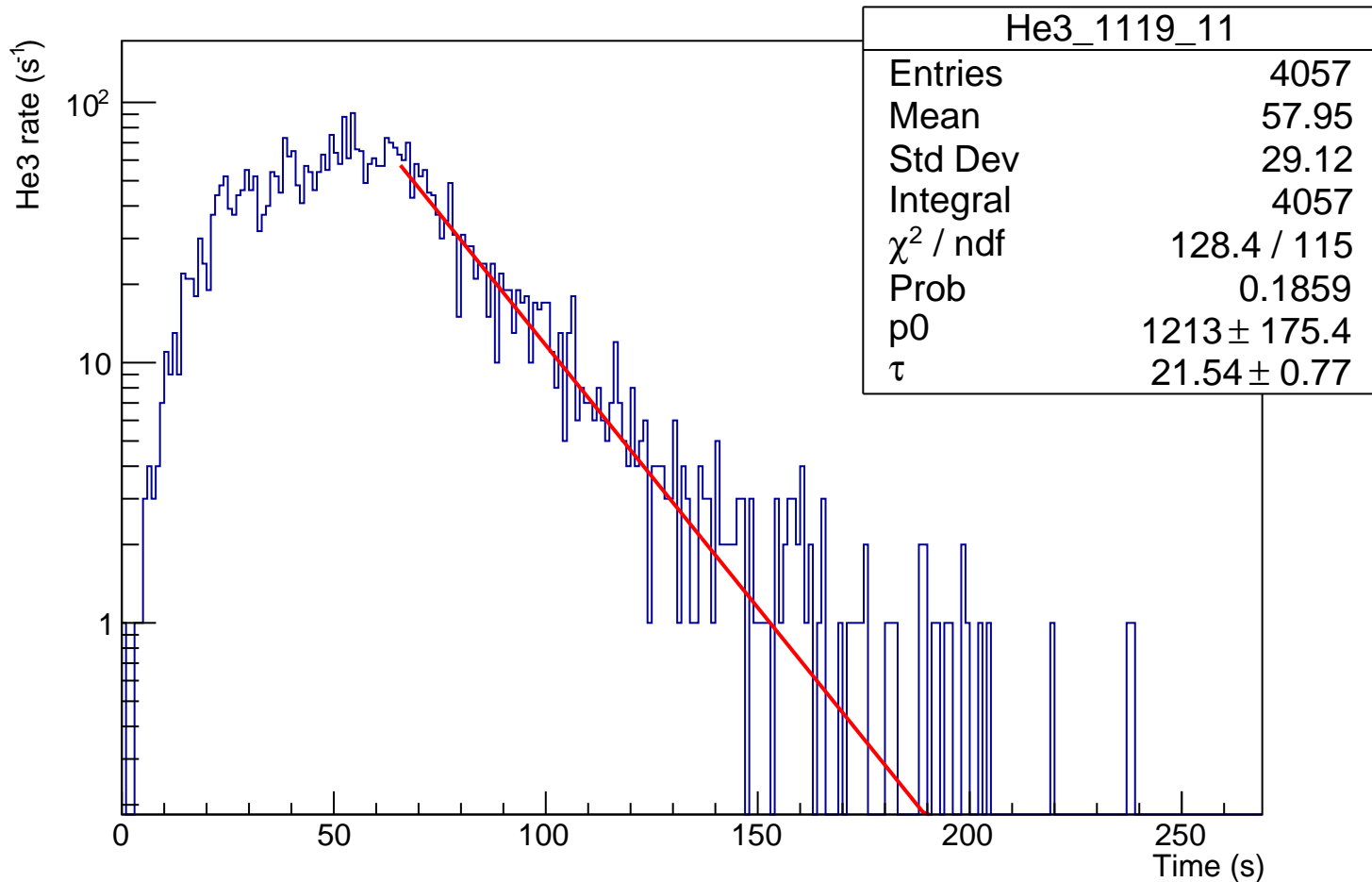
# He3 detector rate



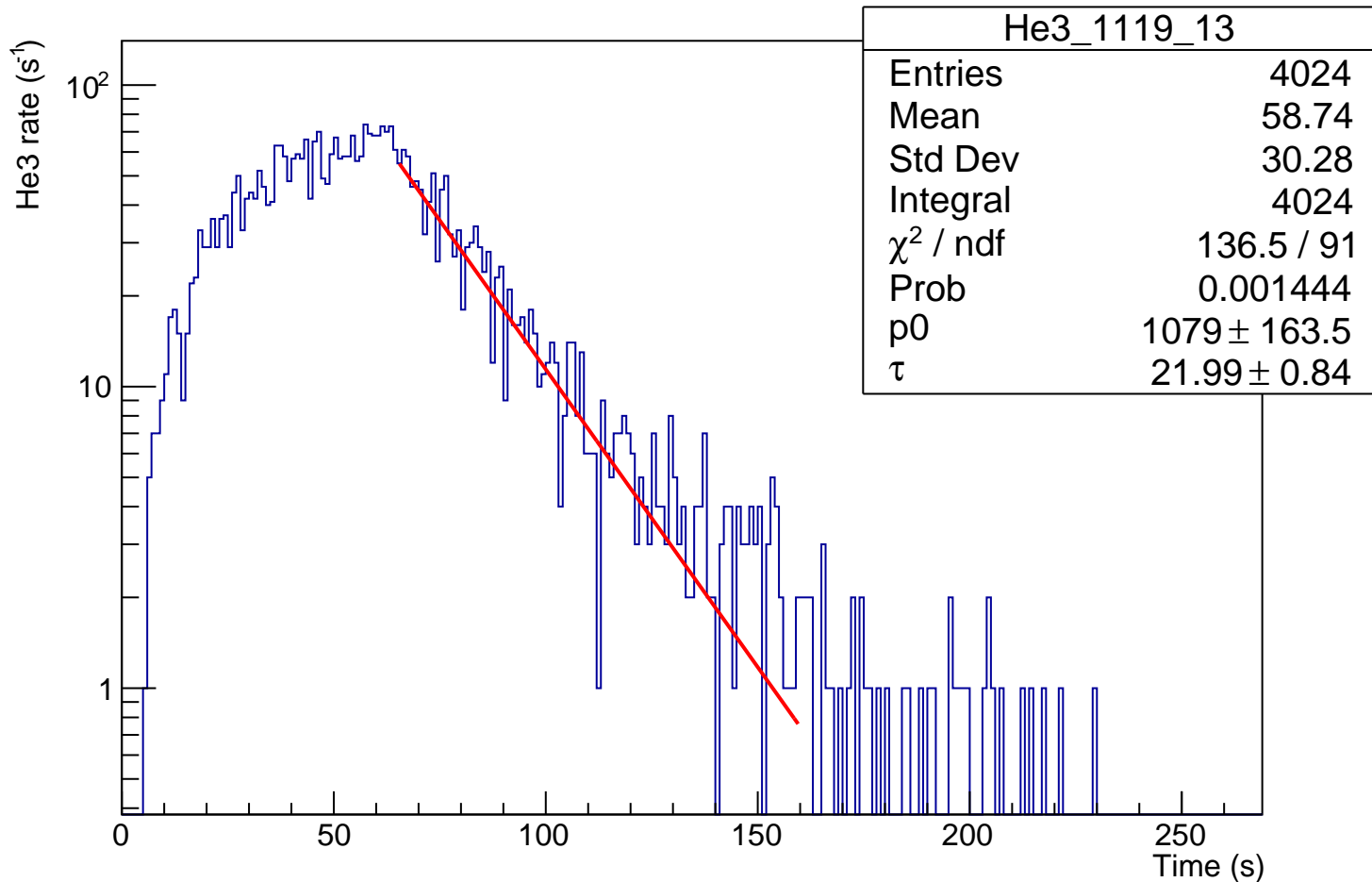
# He3 detector rate



# He3 detector rate

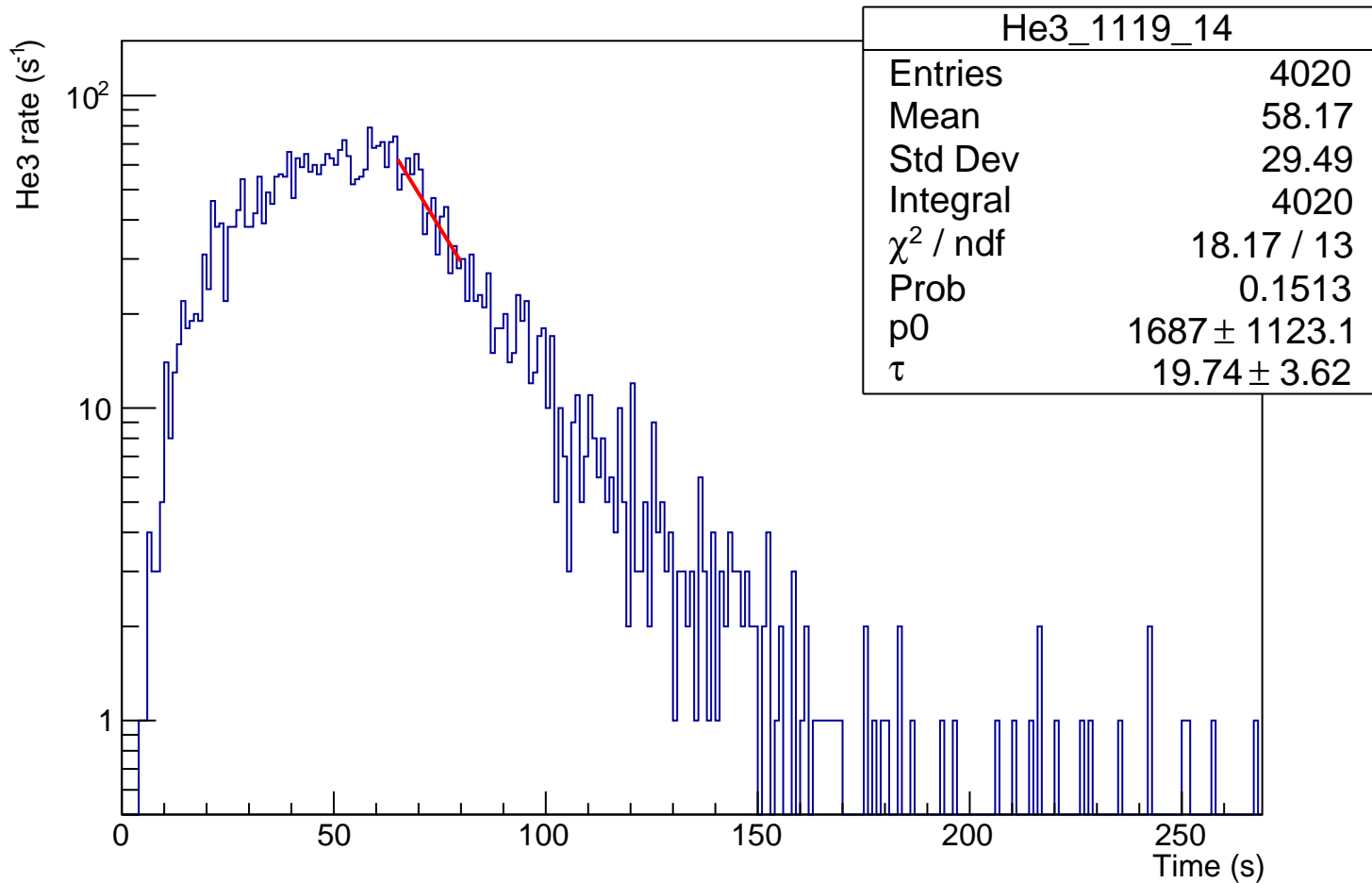


# He3 detector rate

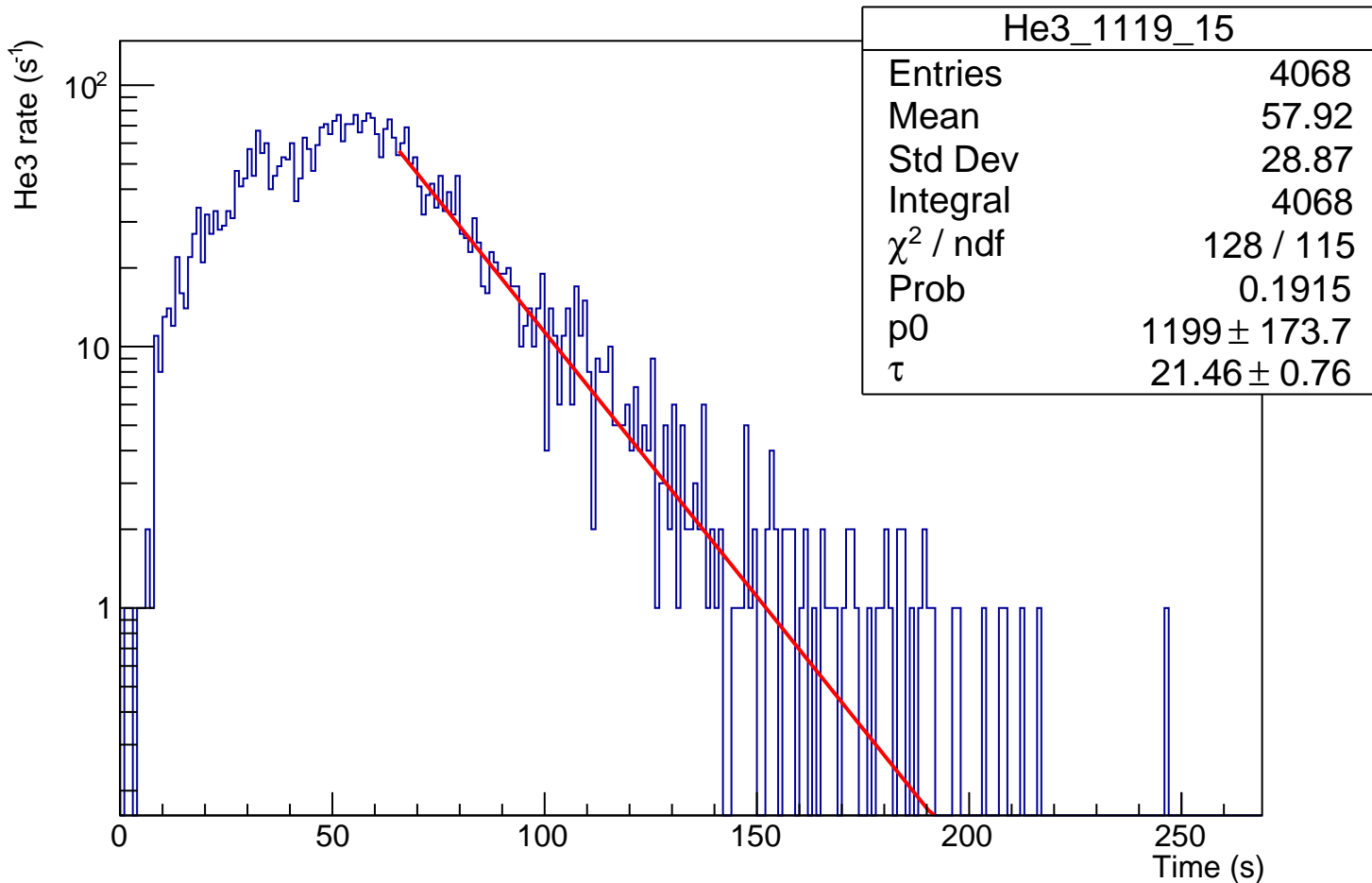




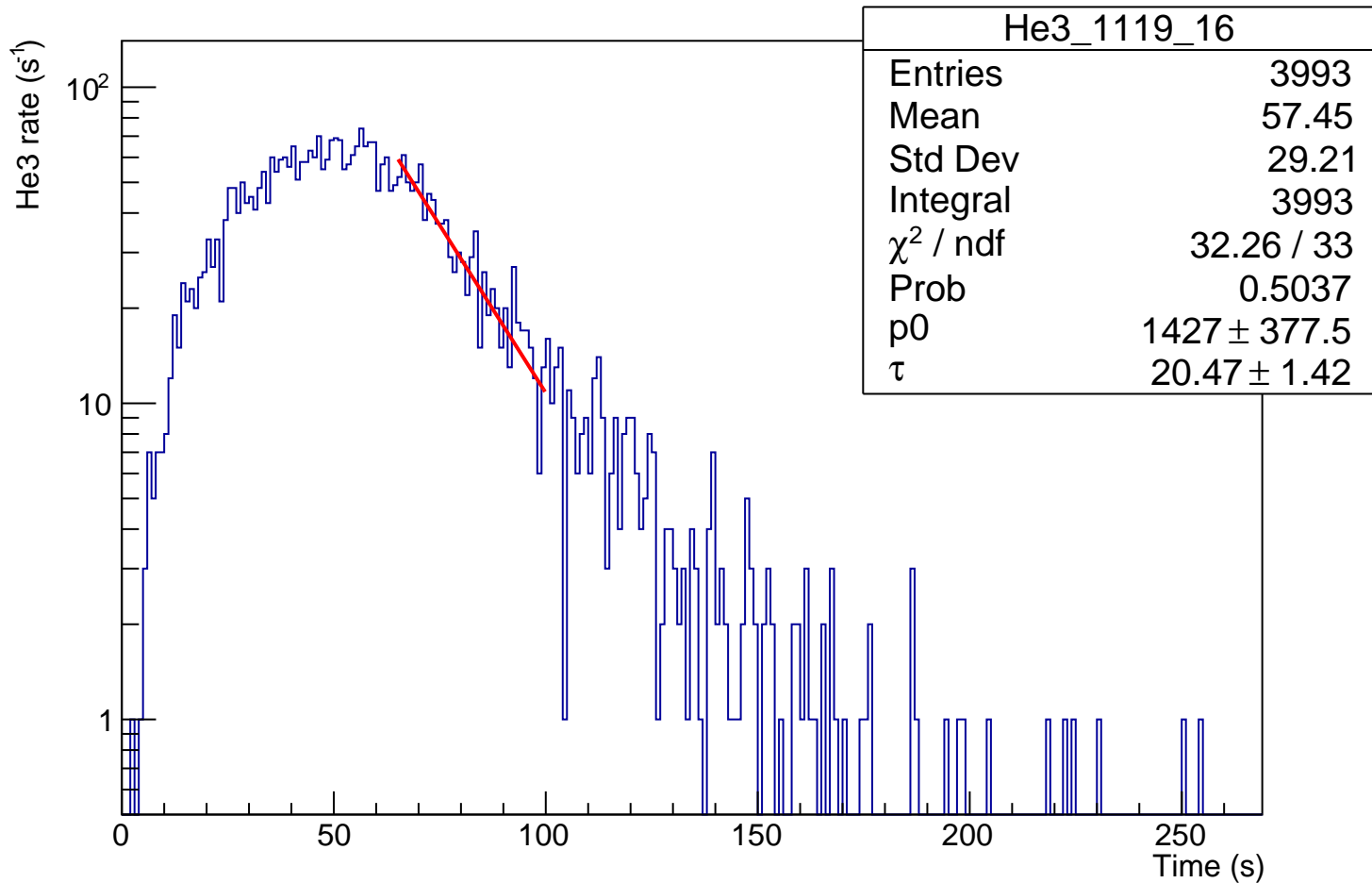
# He3 detector rate



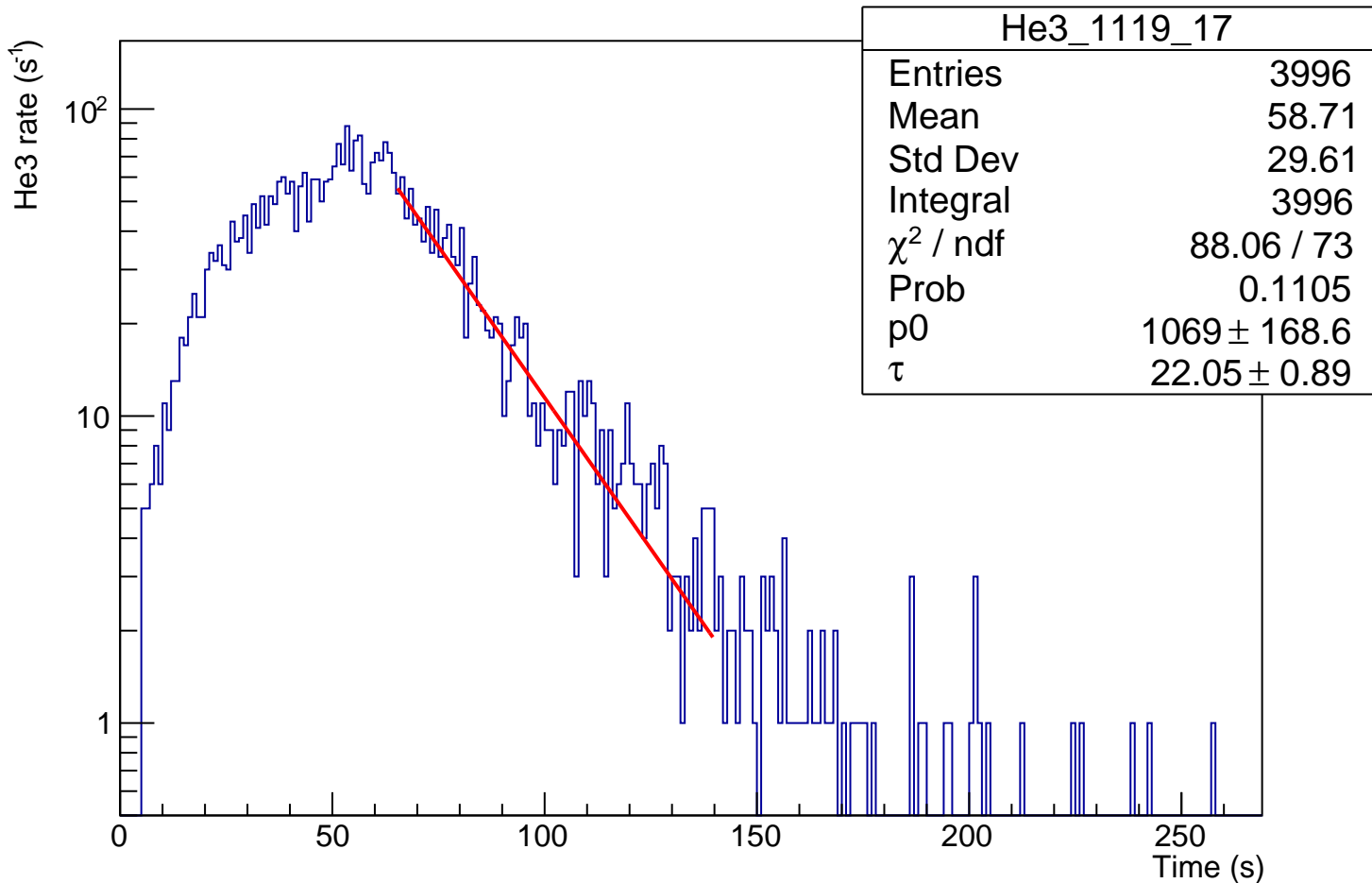
# He3 detector rate



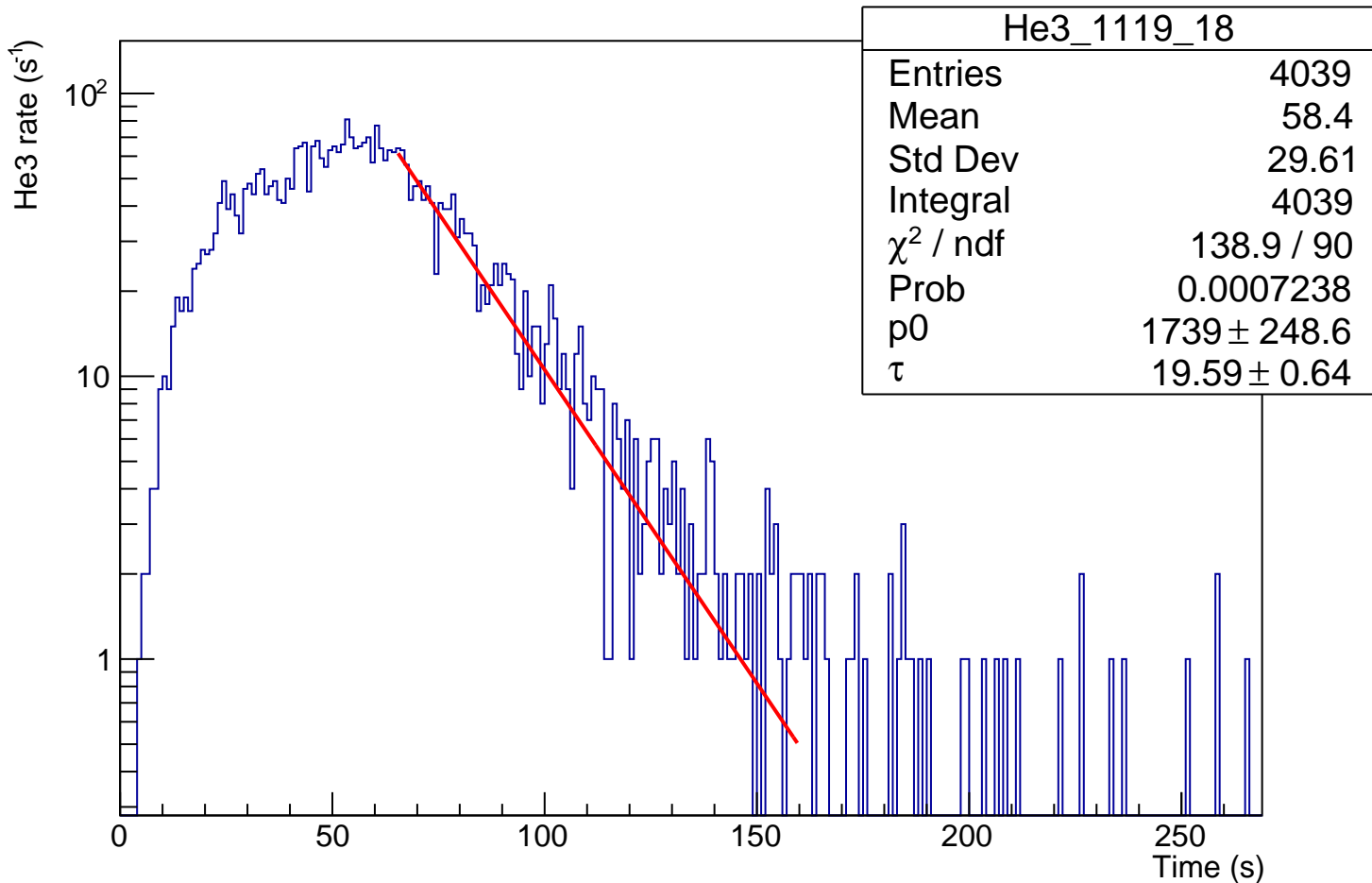
# He3 detector rate



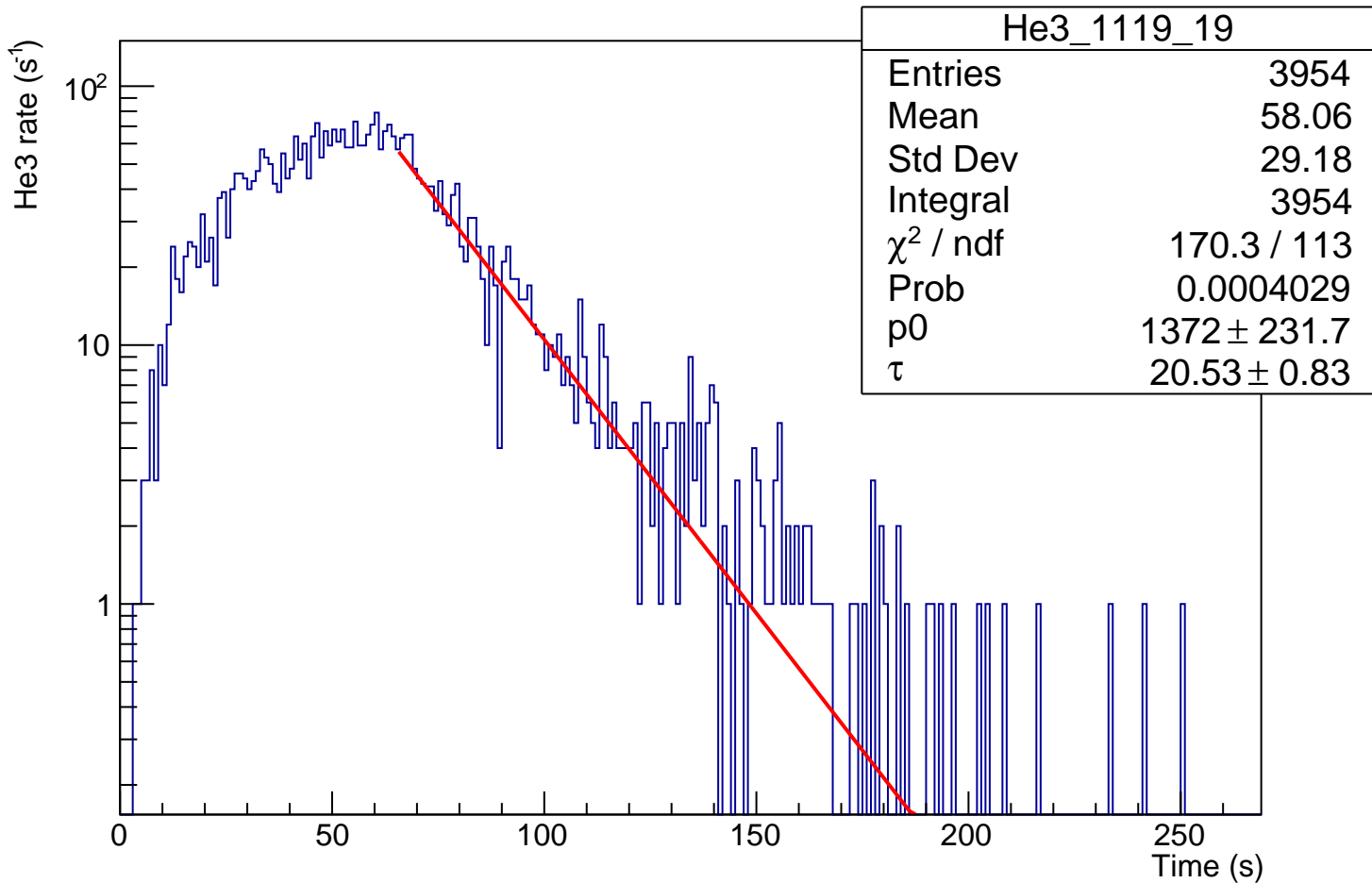
# He3 detector rate



# He3 detector rate



# He3 detector rate



**Average lifetime from He3 data:**

$$\tau = 21.5184656823 \pm 0.0017478592481 \text{ s}$$