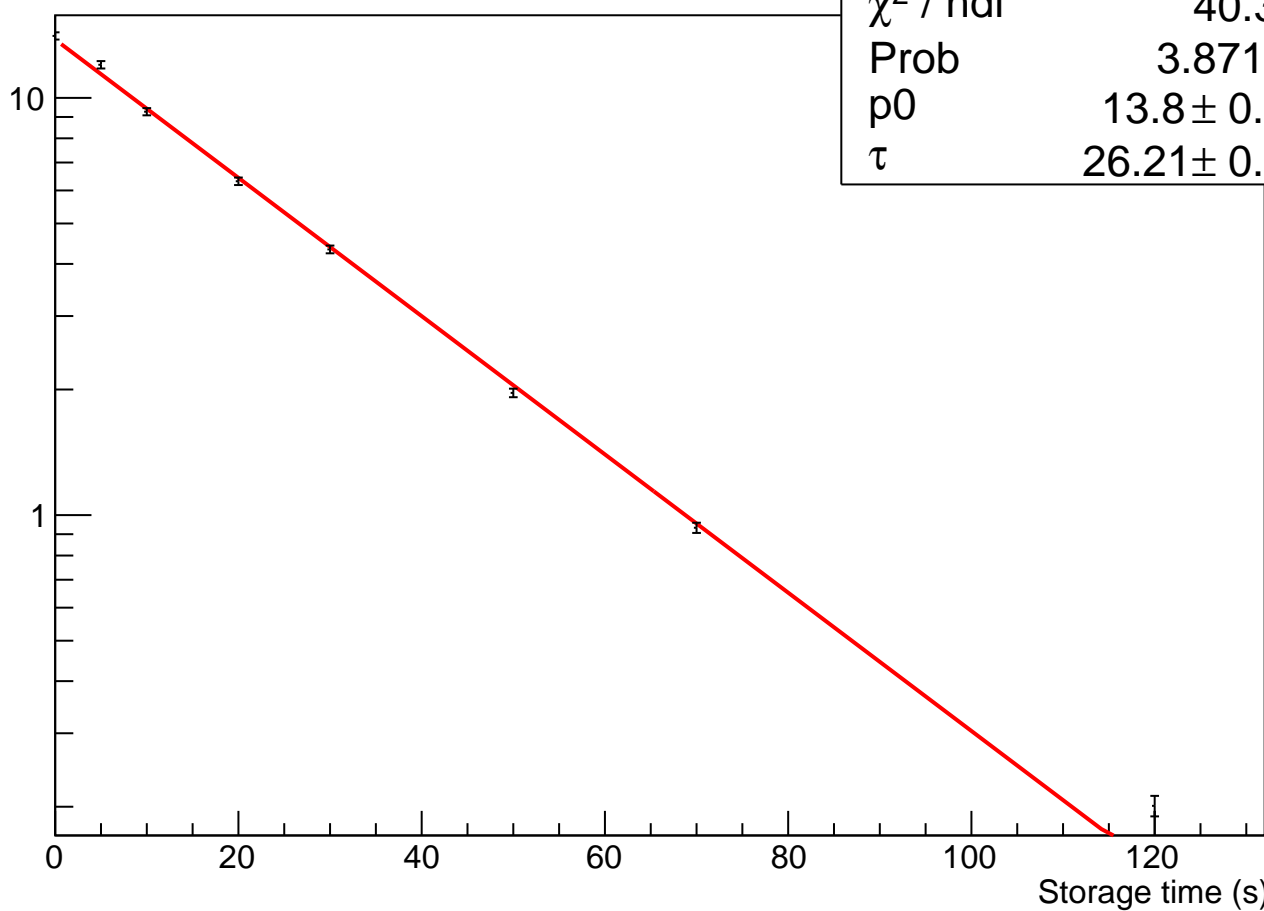


TCN18-040 (single exponential fit, with background subtracted, normalized to monitor detector)

UCN-count-to-monitor ratio

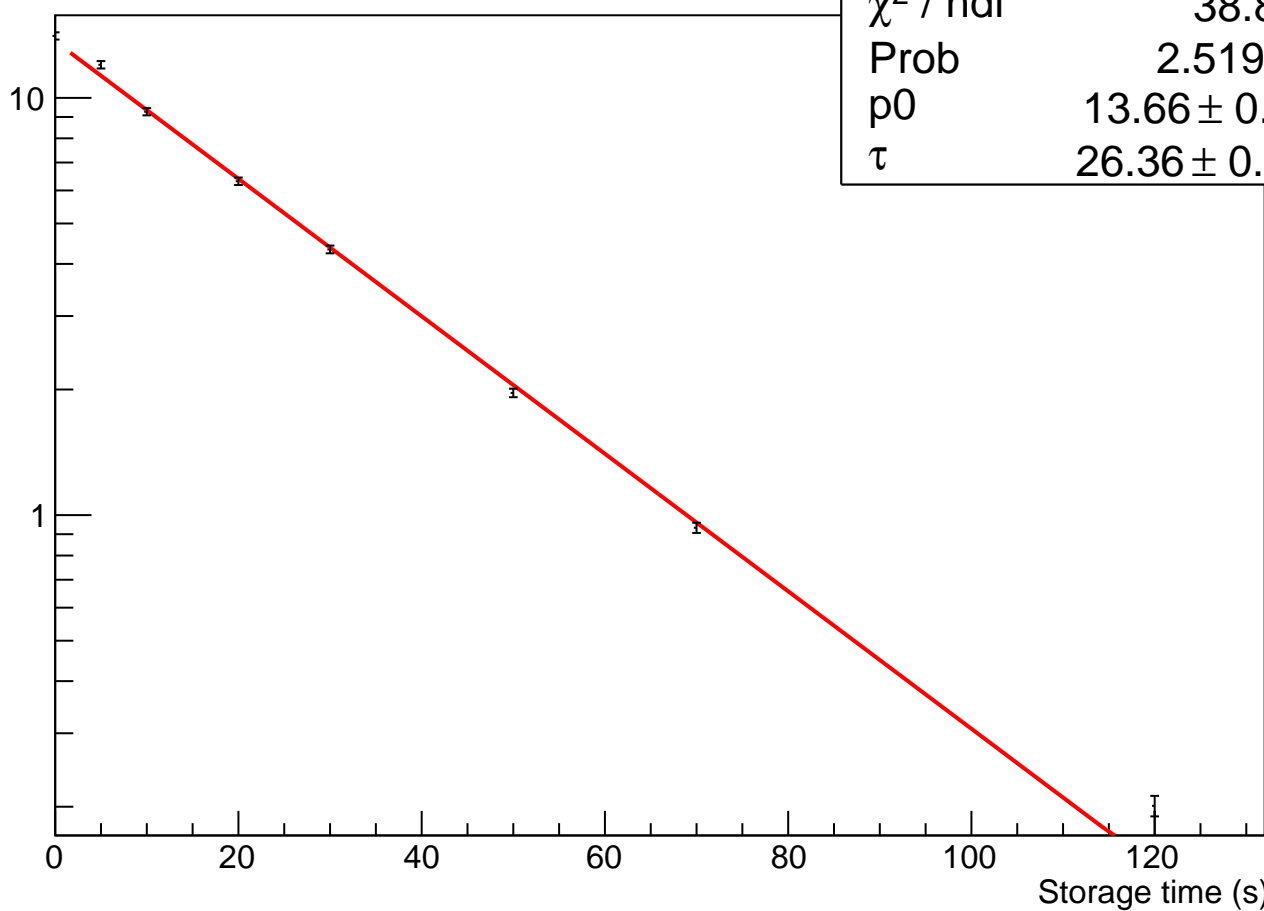
$\chi^2 / \text{ndf}$	40.36 / 6
Prob	3.871e-07
p0	$13.8 \pm 0.1616$
$\tau$	$26.21 \pm 0.2459$



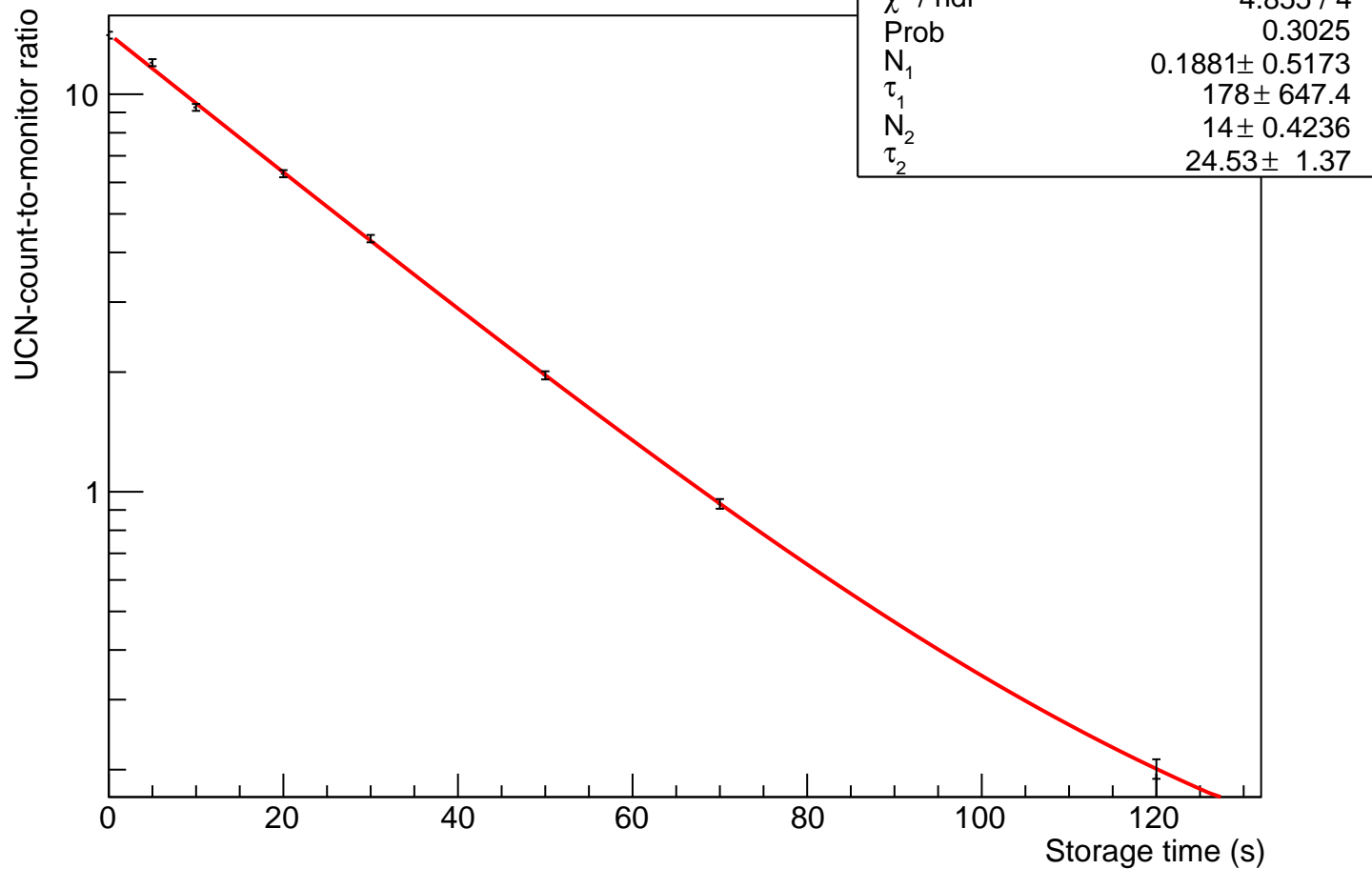
TCN18-040 (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)

UCN-count-to-monitor ratio

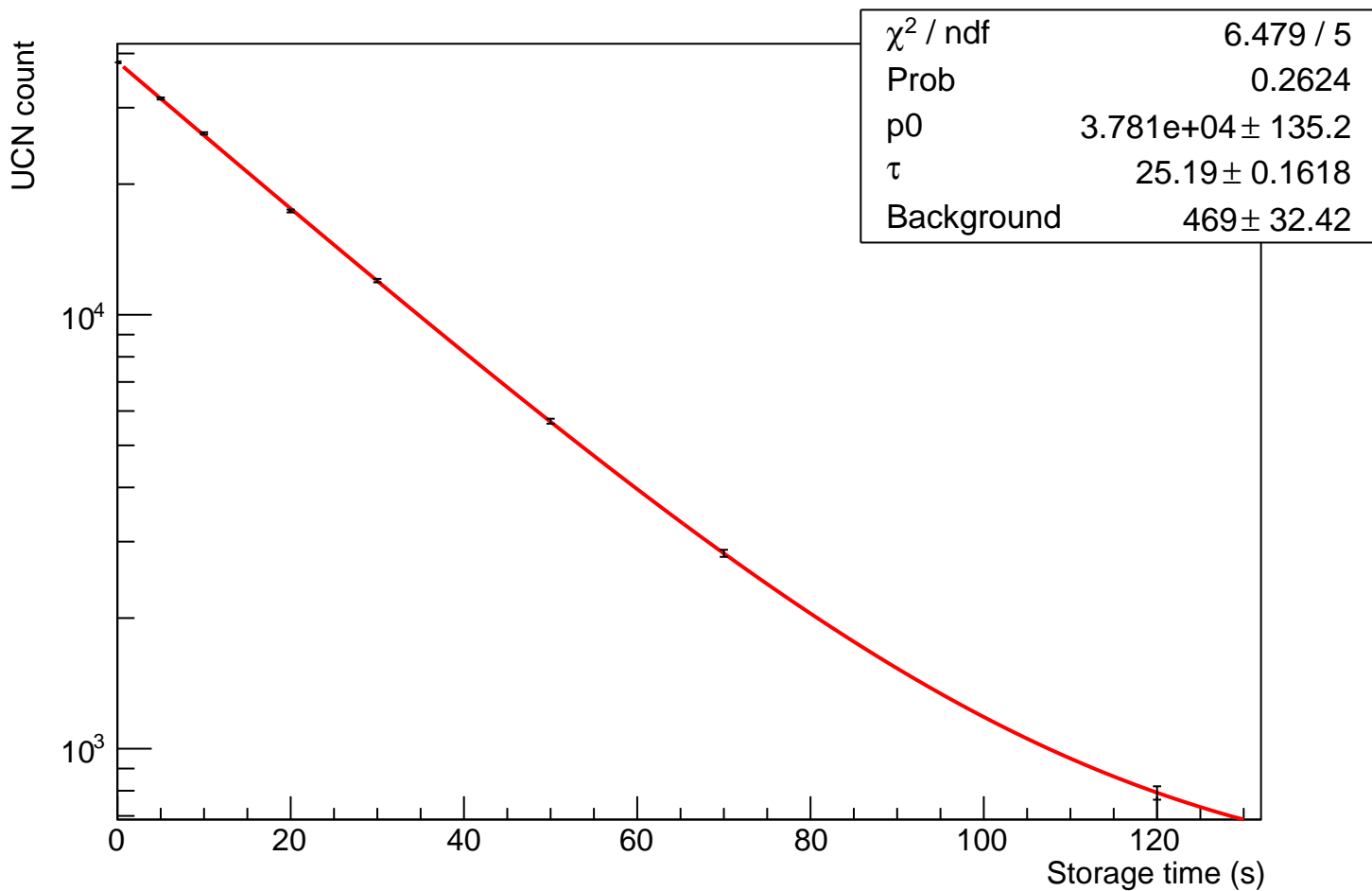
$\chi^2 / \text{ndf}$	38.87 / 5
Prob	2.519e-07
p0	$13.66 \pm 0.1961$
$\tau$	$26.36 \pm 0.2773$



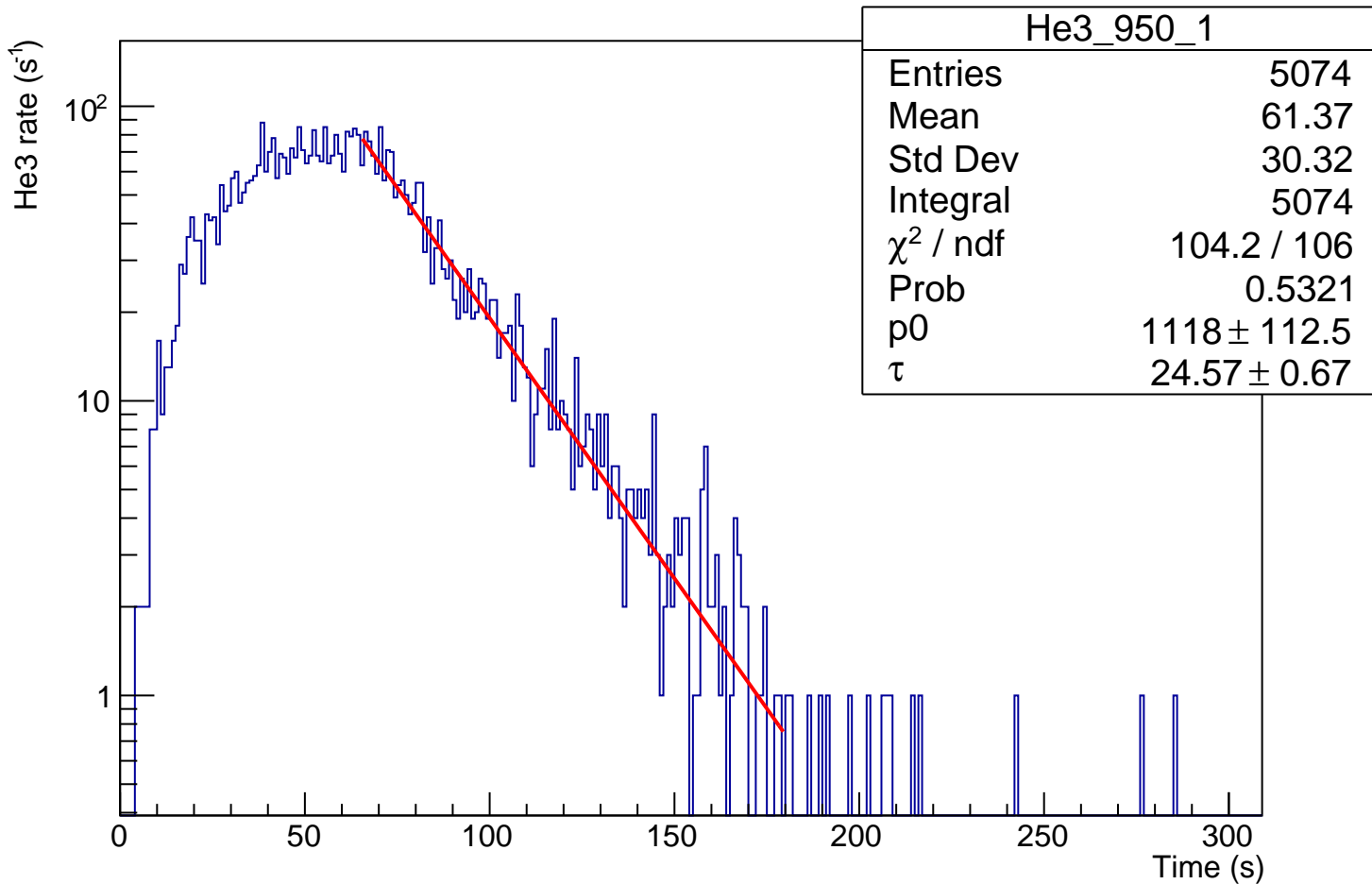
TCN18-040 (double exponential fit, with background subtracted, normalized to monitor detector)



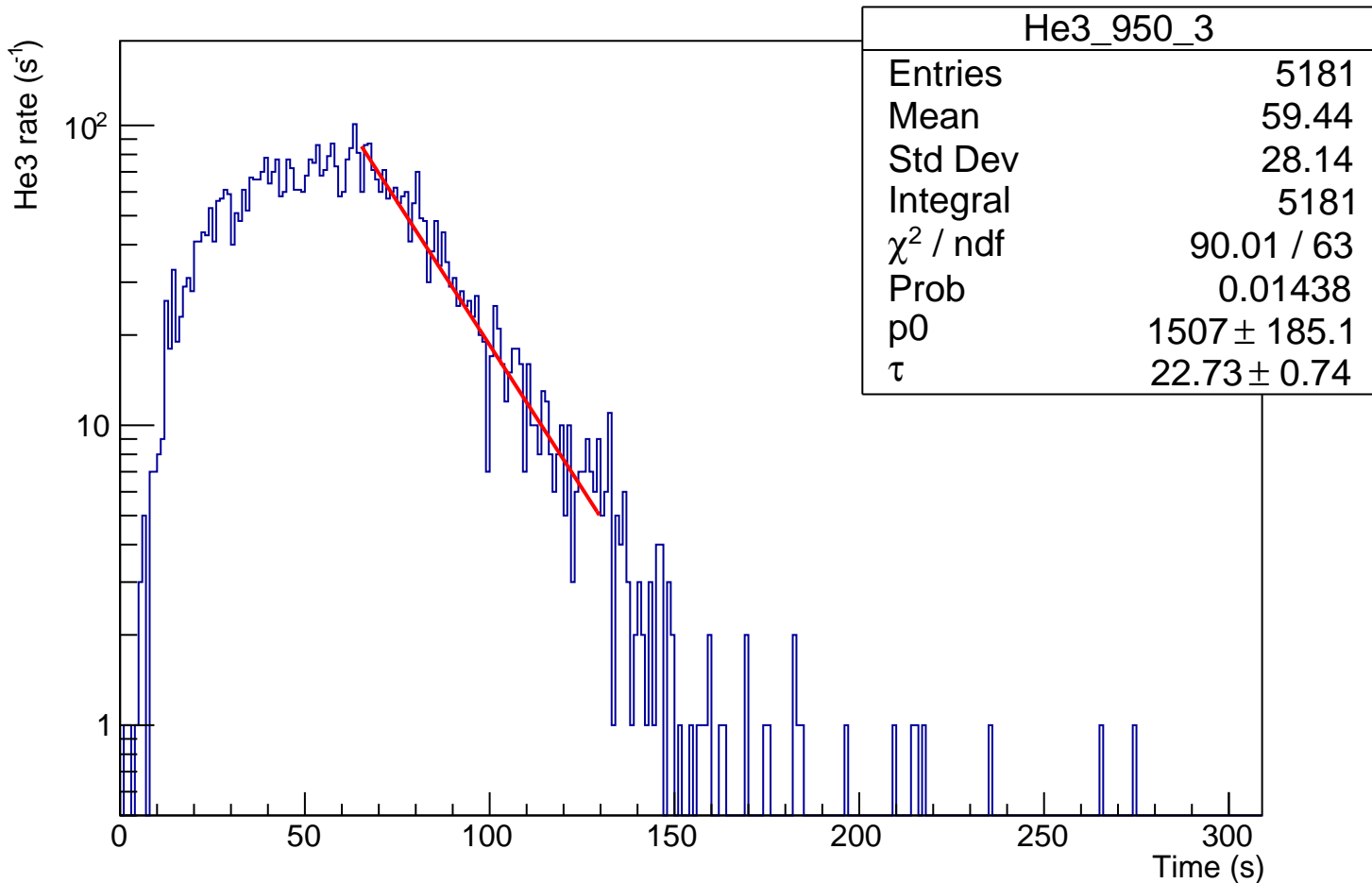
TCN18-040 (single exponential fit + background, unnormalized)



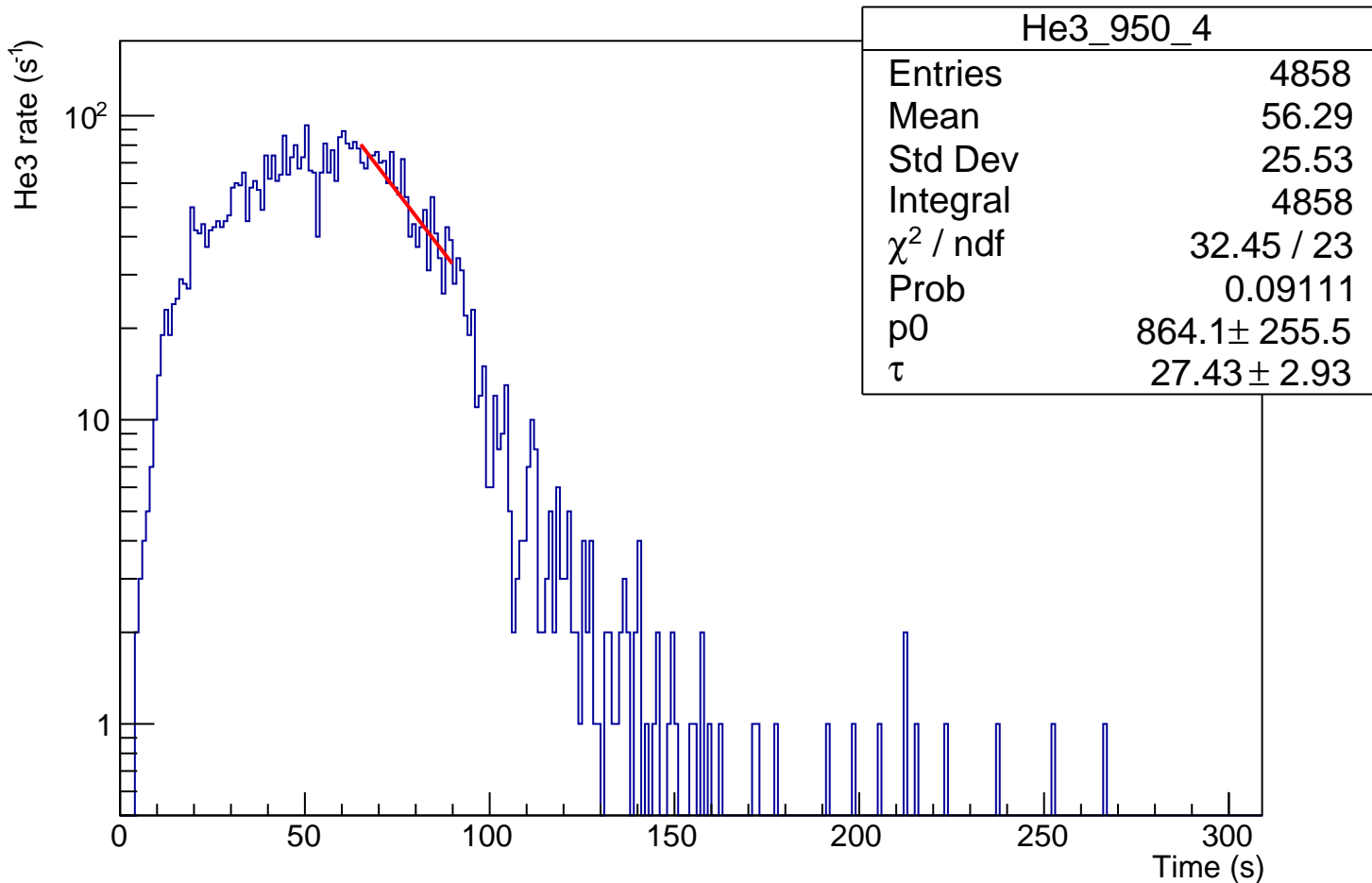
# He3 detector rate



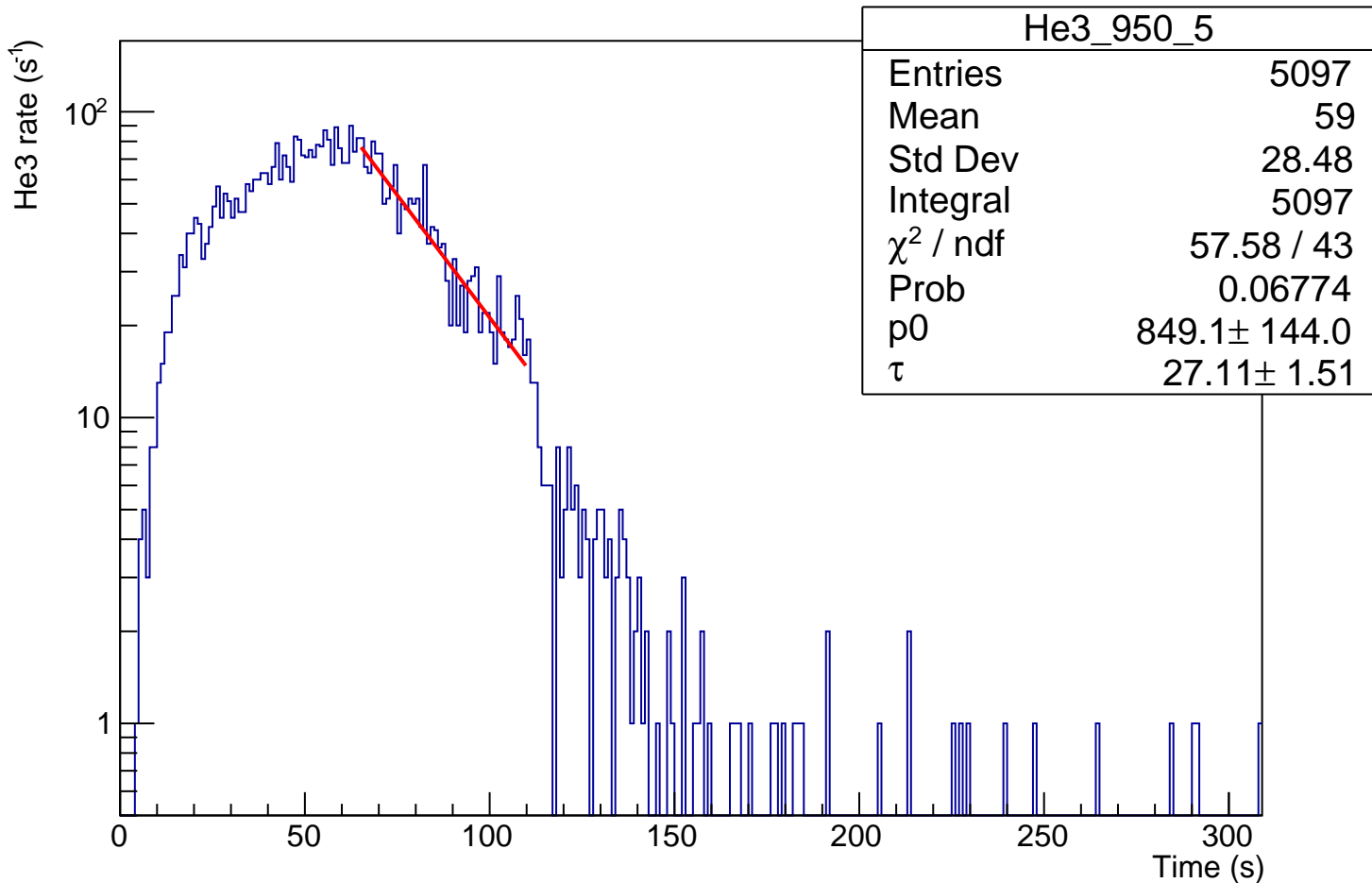
# He3 detector rate



# He3 detector rate

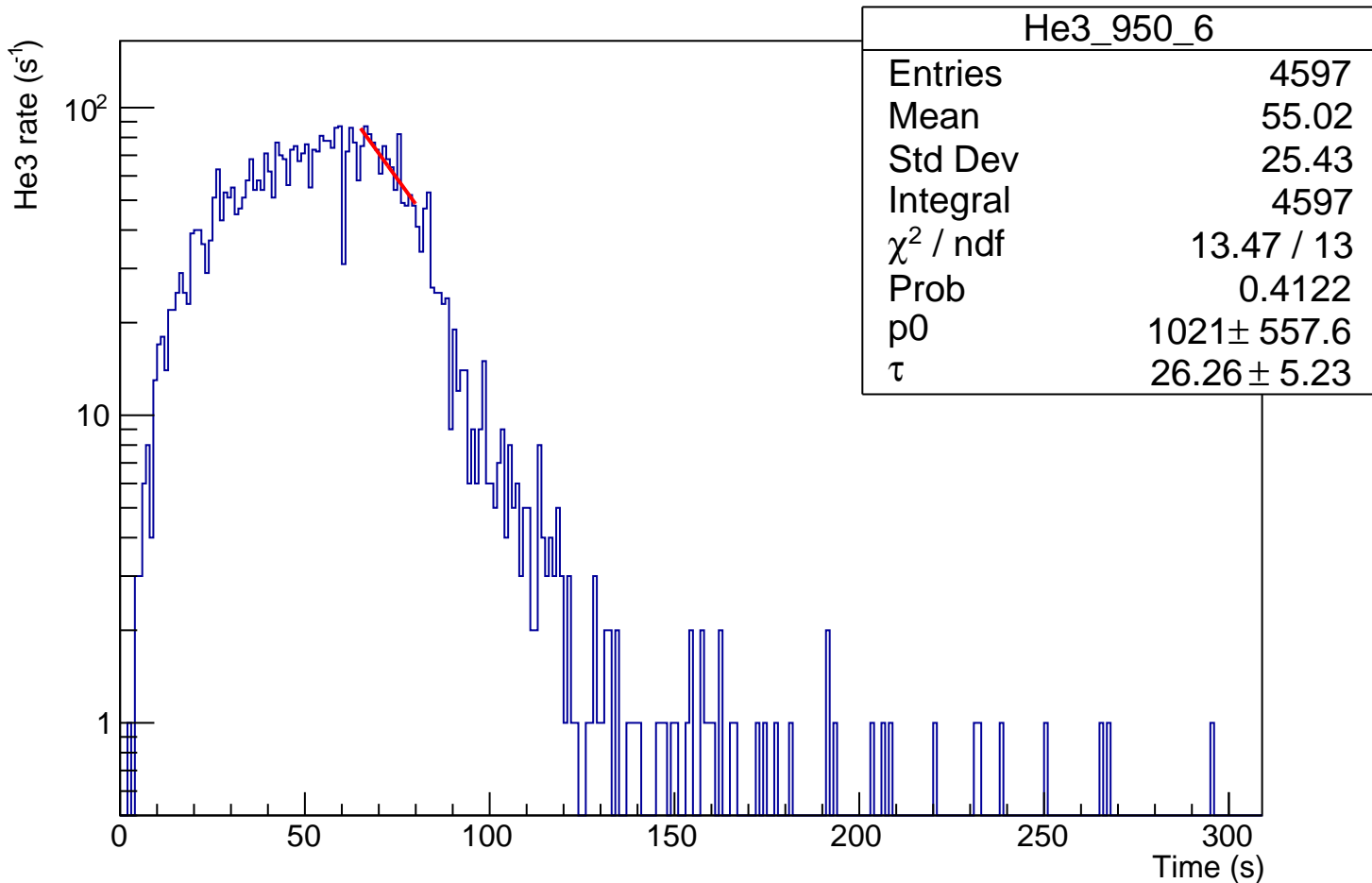


# He3 detector rate





# He3 detector rate



**Average lifetime from He3 data:**

$$\tau = 24.1751993194 \pm 0.0467528389837 \text{ s}$$