

UCN-count-to-monitor ratio

$\chi^2 / \text{ndf}$	197.3 / 7
Prob	4.356e-39
p0	$8.947 \pm 0.07915$
$\tau$	$52.14 \pm 0.4777$

10

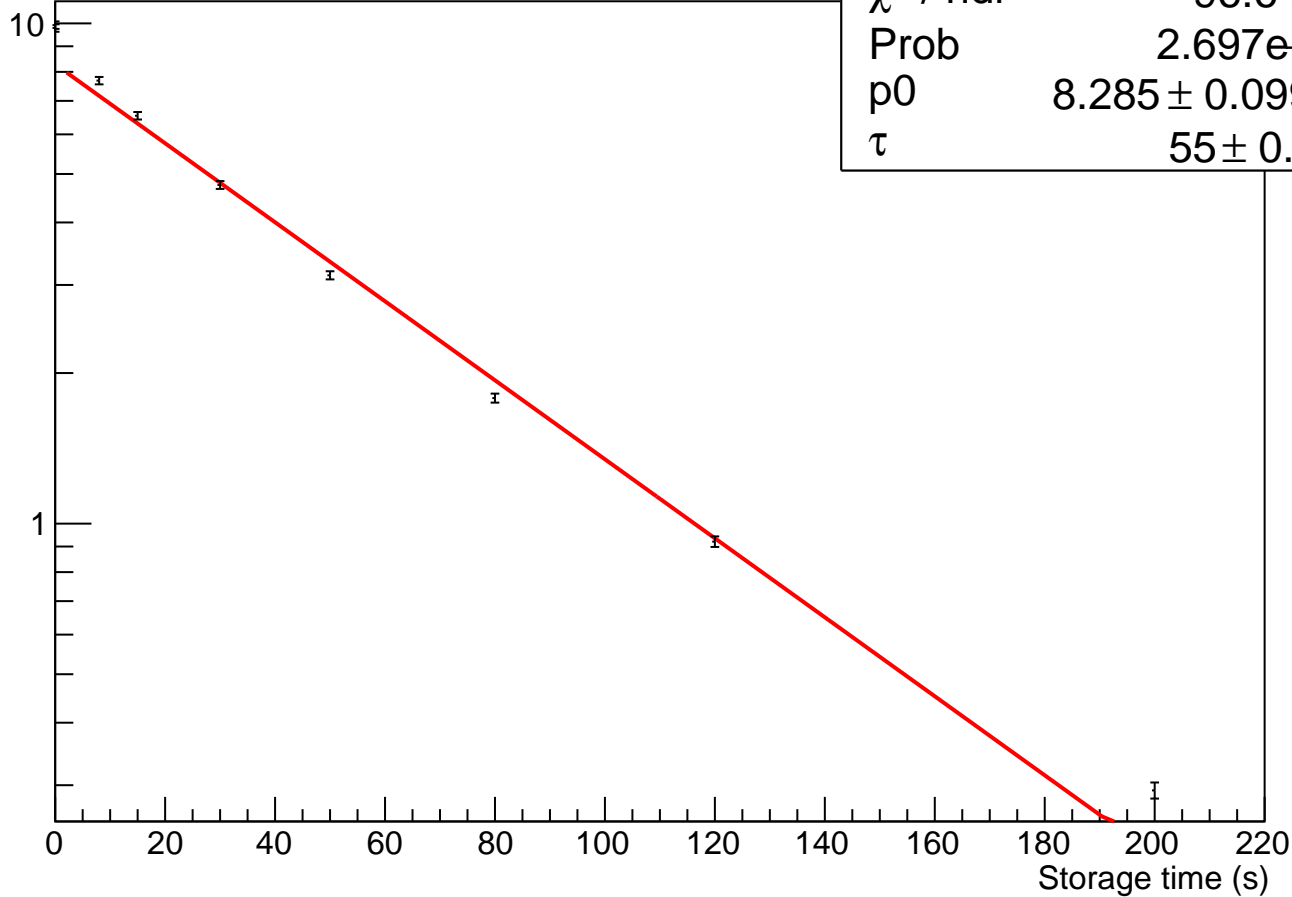
1

0 20 40 60 80 100 120 140 160 180 200 220

Storage time (s)

UCN-count-to-monitor ratio

$\chi^2 / \text{nfd}$	96.64 / 5
Prob	2.697e-19
p0	$8.285 \pm 0.09918$
$\tau$	$55 \pm 0.581$



UCN-count-to-monitor ratio

$\chi^2 / \text{ndf}$	6.833 / 5
Prob	0.2334
$N_1$	$4.838 \pm 0.7106$
$\tau_1$	$70.83 \pm 4.17$
$N_2$	$4.88 \pm 0.6783$
$\tau_2$	$25.79 \pm 3.176$

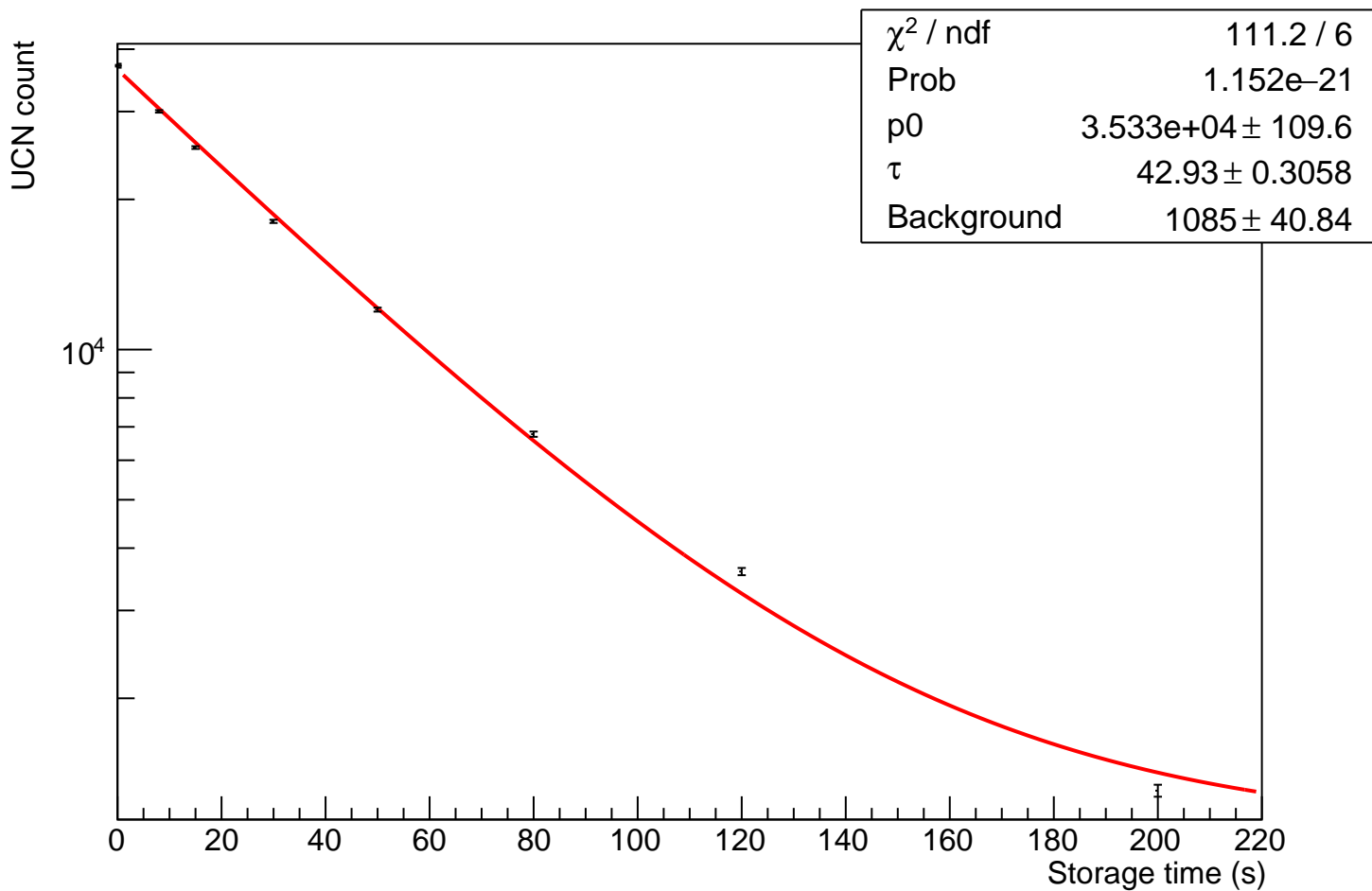
10

1

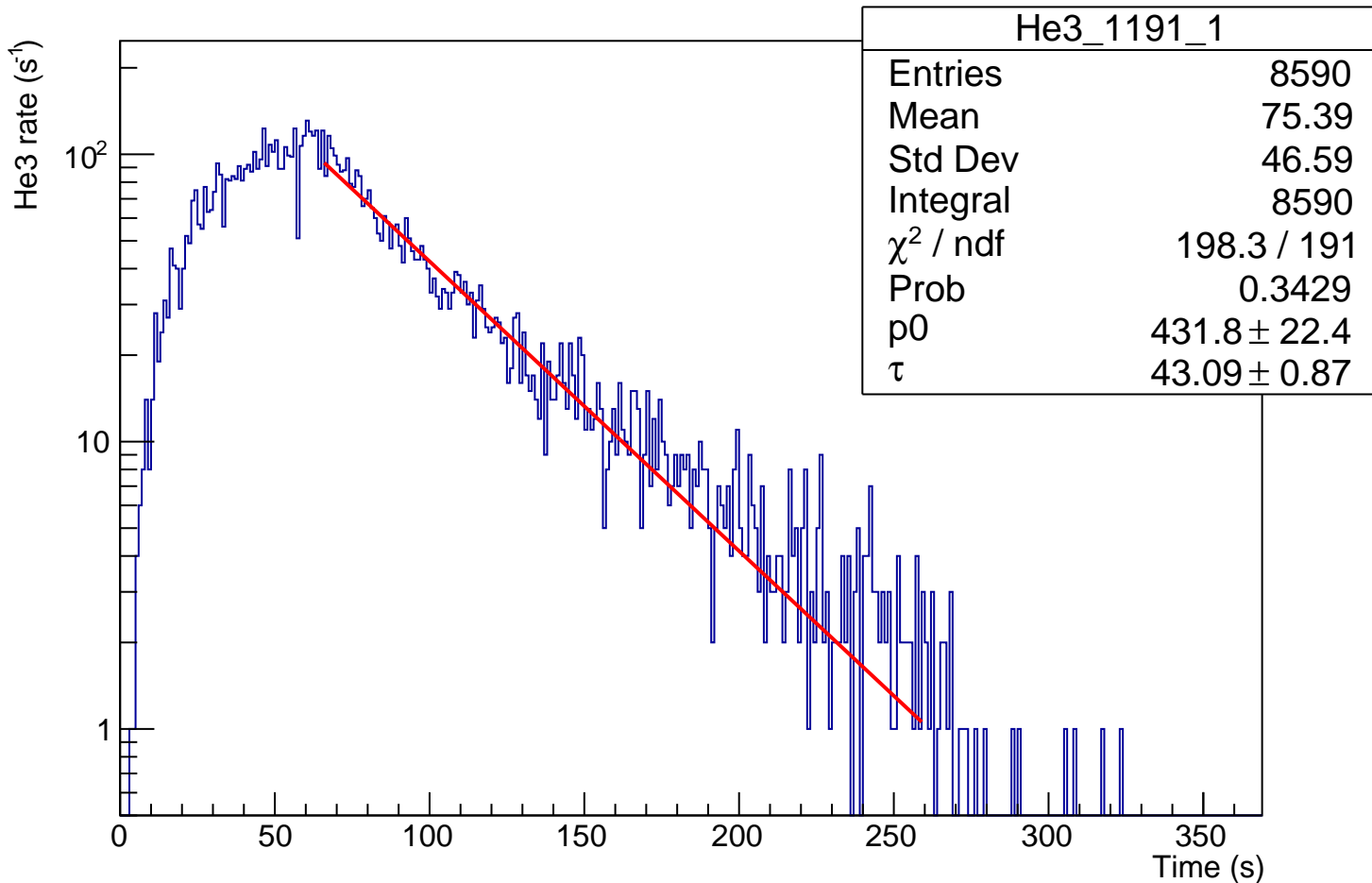
0 20 40 60 80 100 120 140 160 180 200 220

Storage time (s)

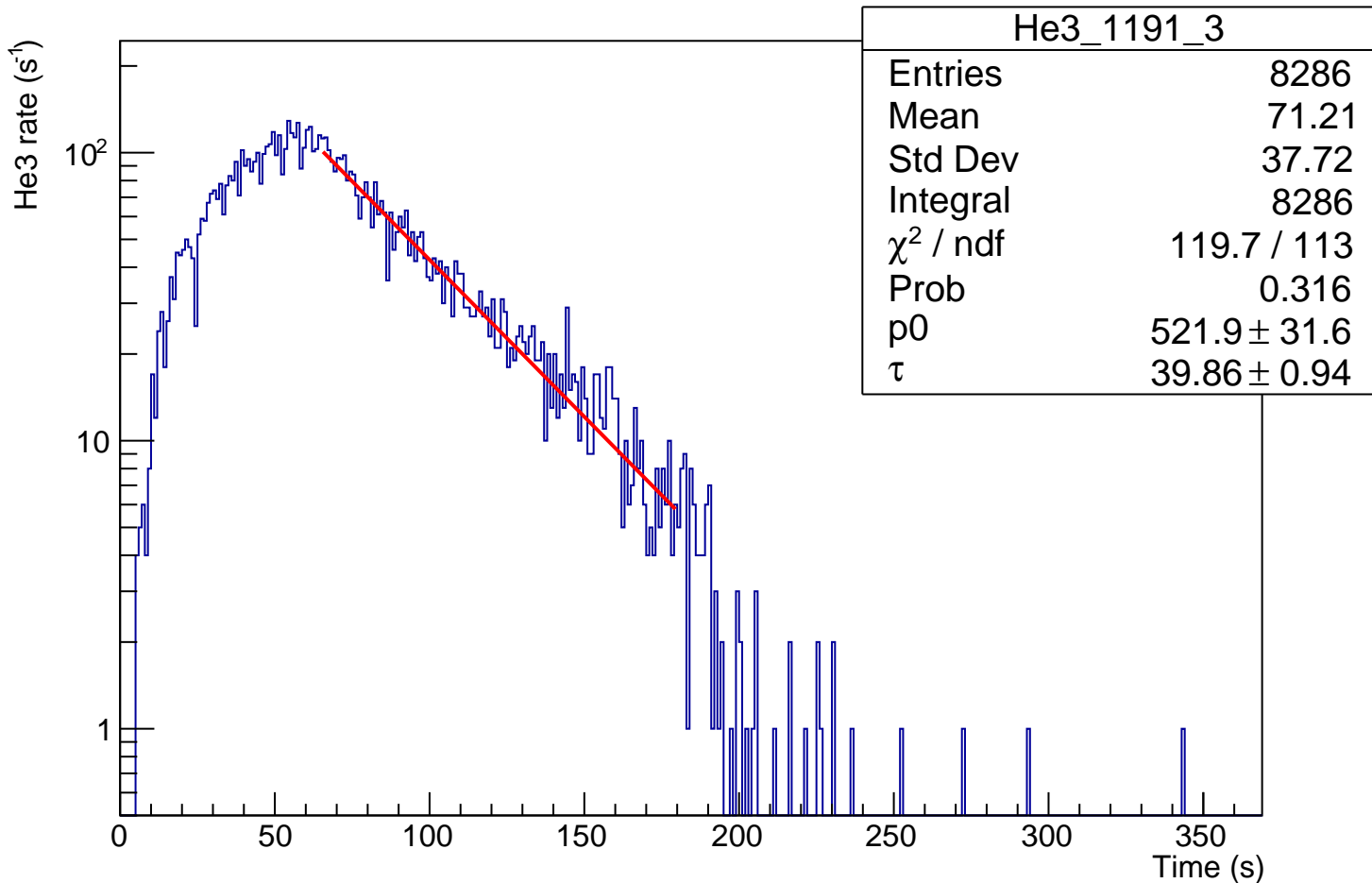
TCN18-382 (UGD22+20, high pos, IV1-IV3) (single exponential fit + background, unnormalized)



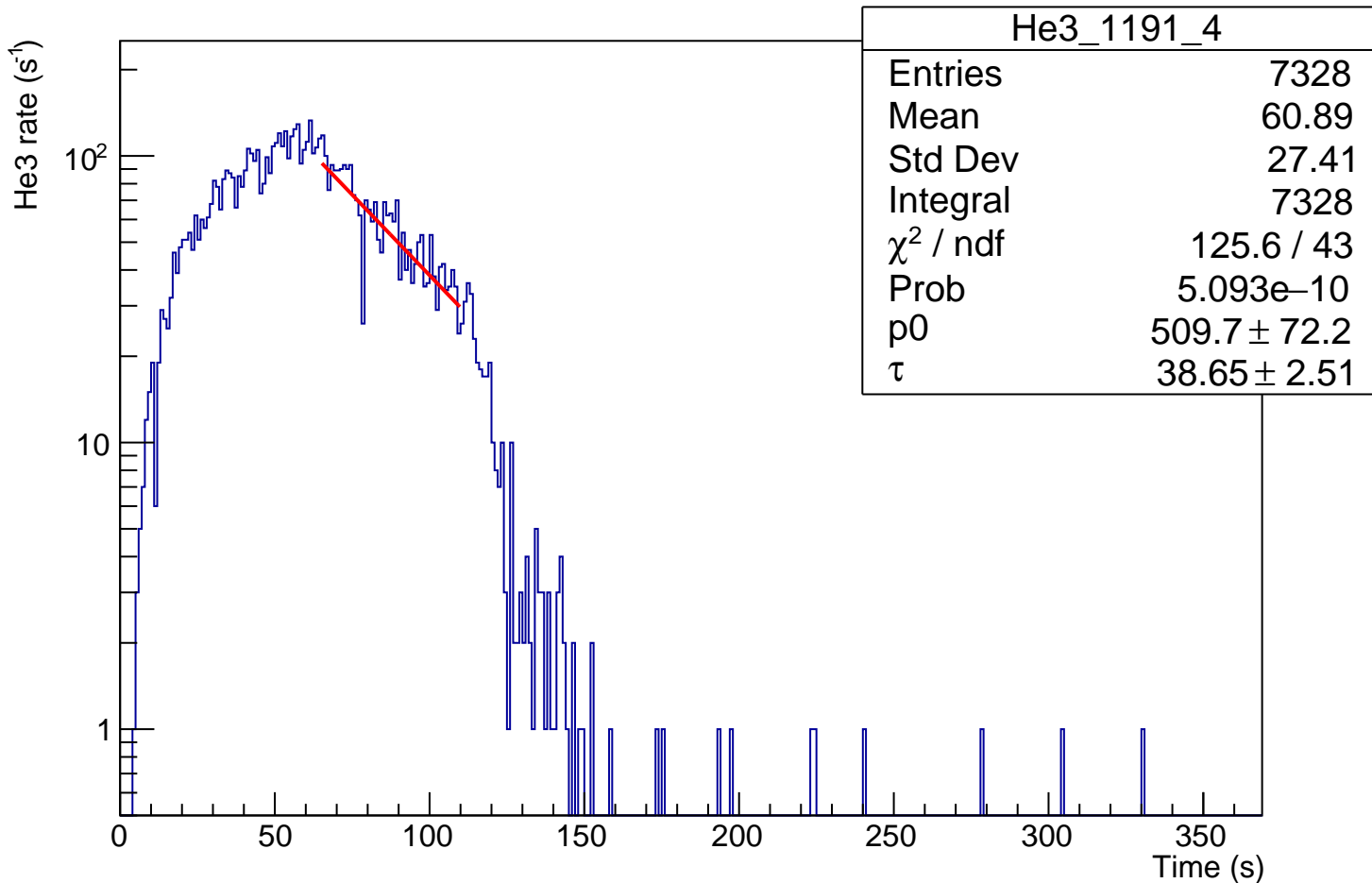
# He3 detector rate



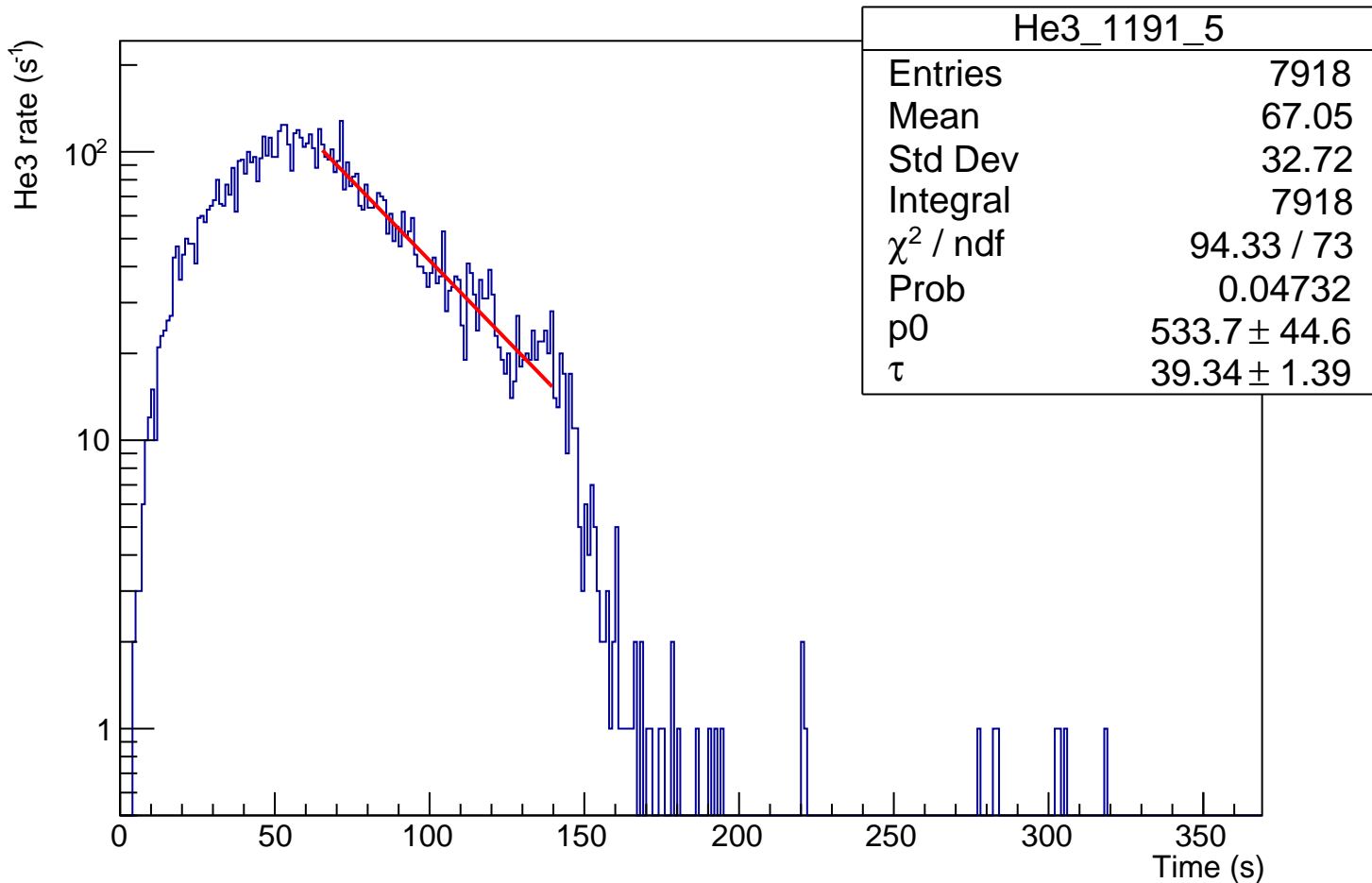
# He3 detector rate



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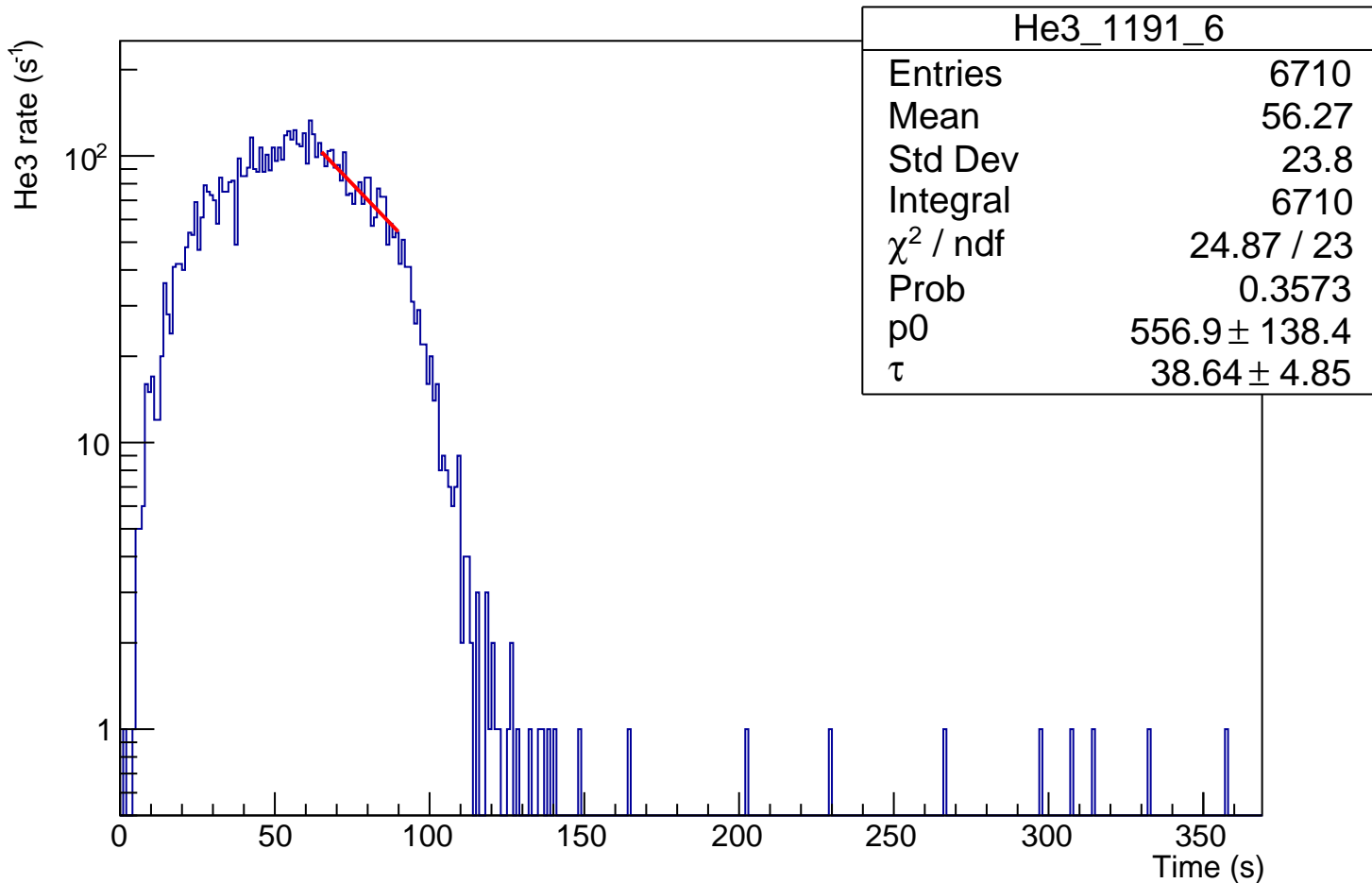


# He3 detector rate





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**Average lifetime from He3 data:**

$$\tau = 41.0475977261 \pm 0.0995853431809 \text{ s}$$