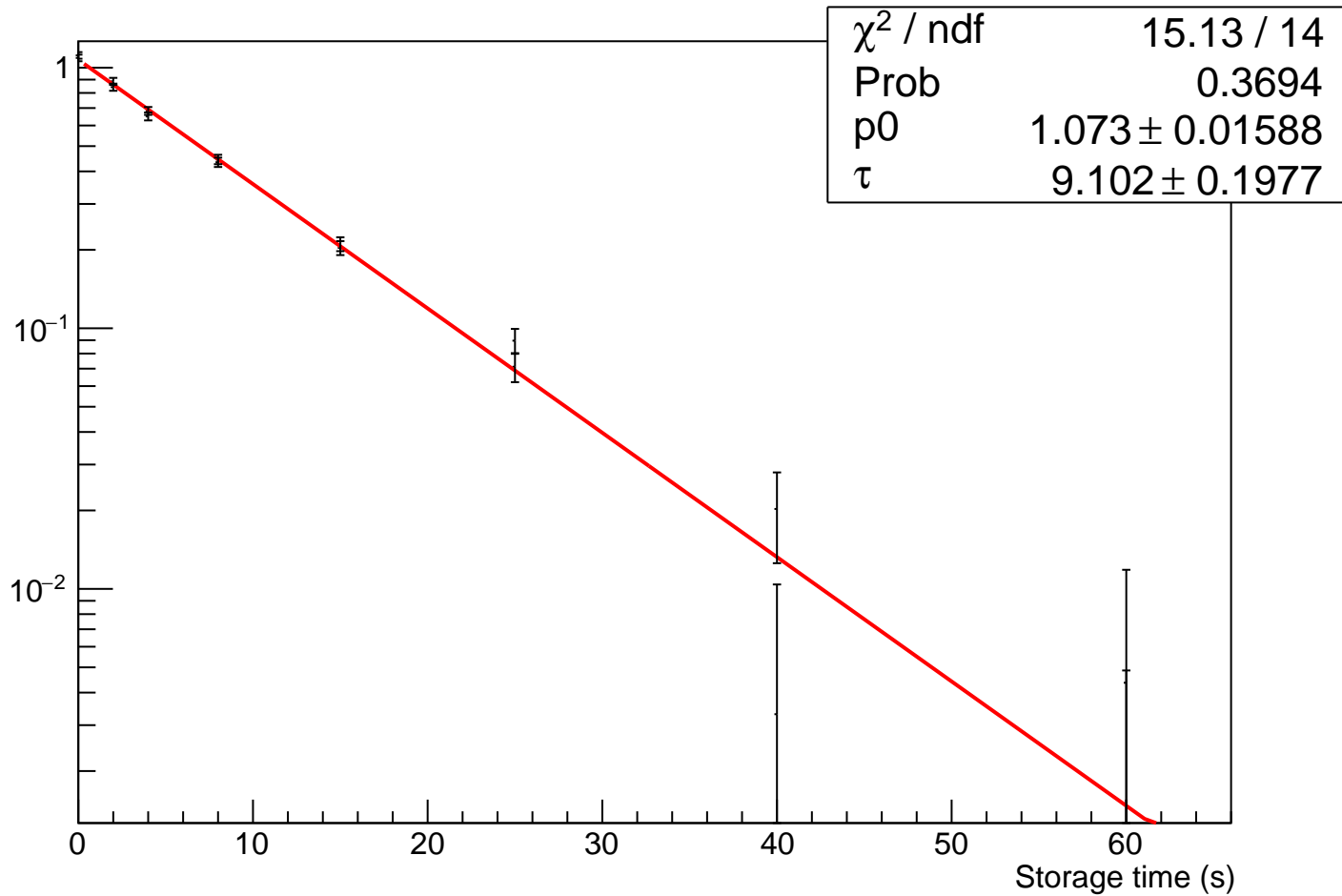
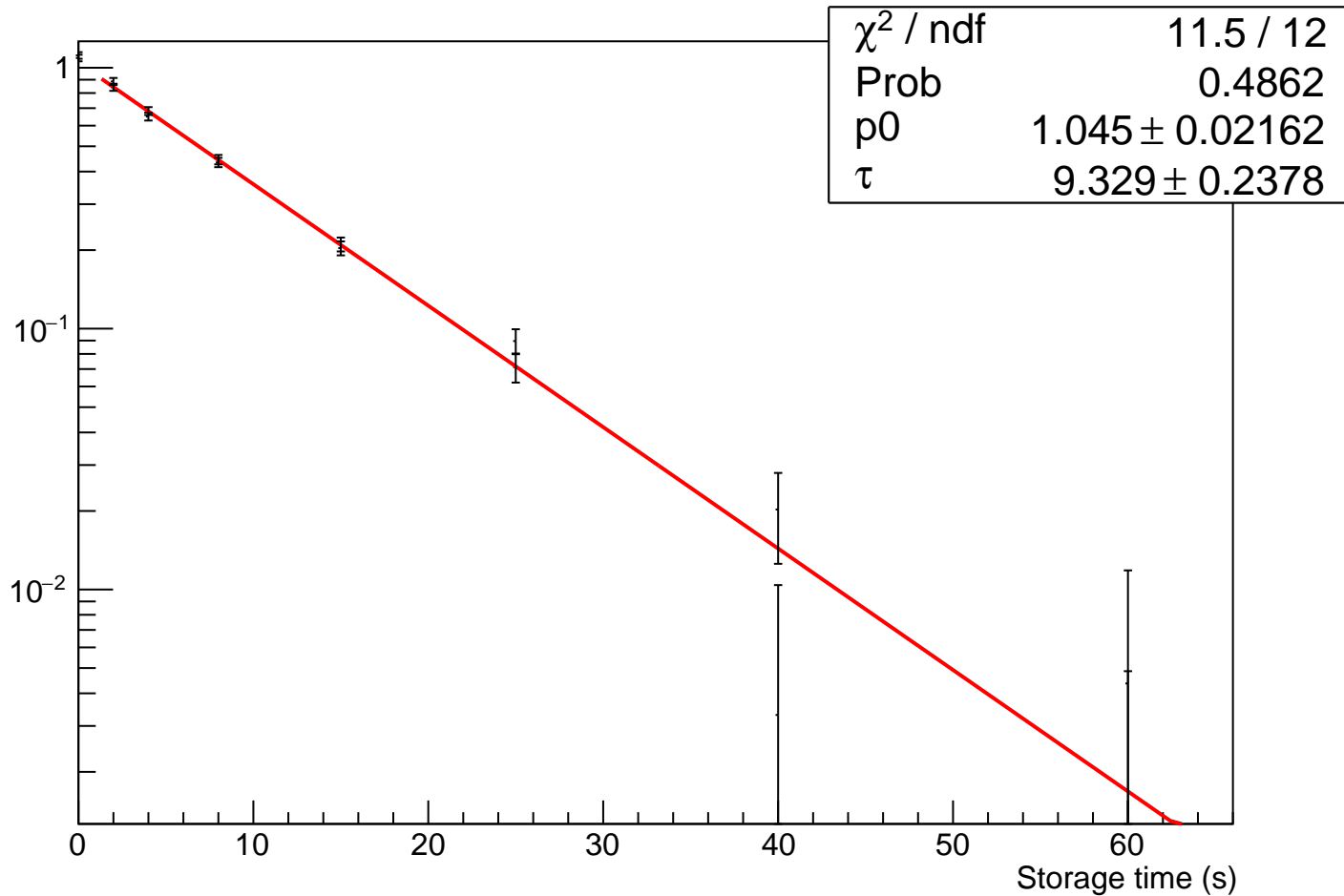


UCN-count-to-monitor ratio

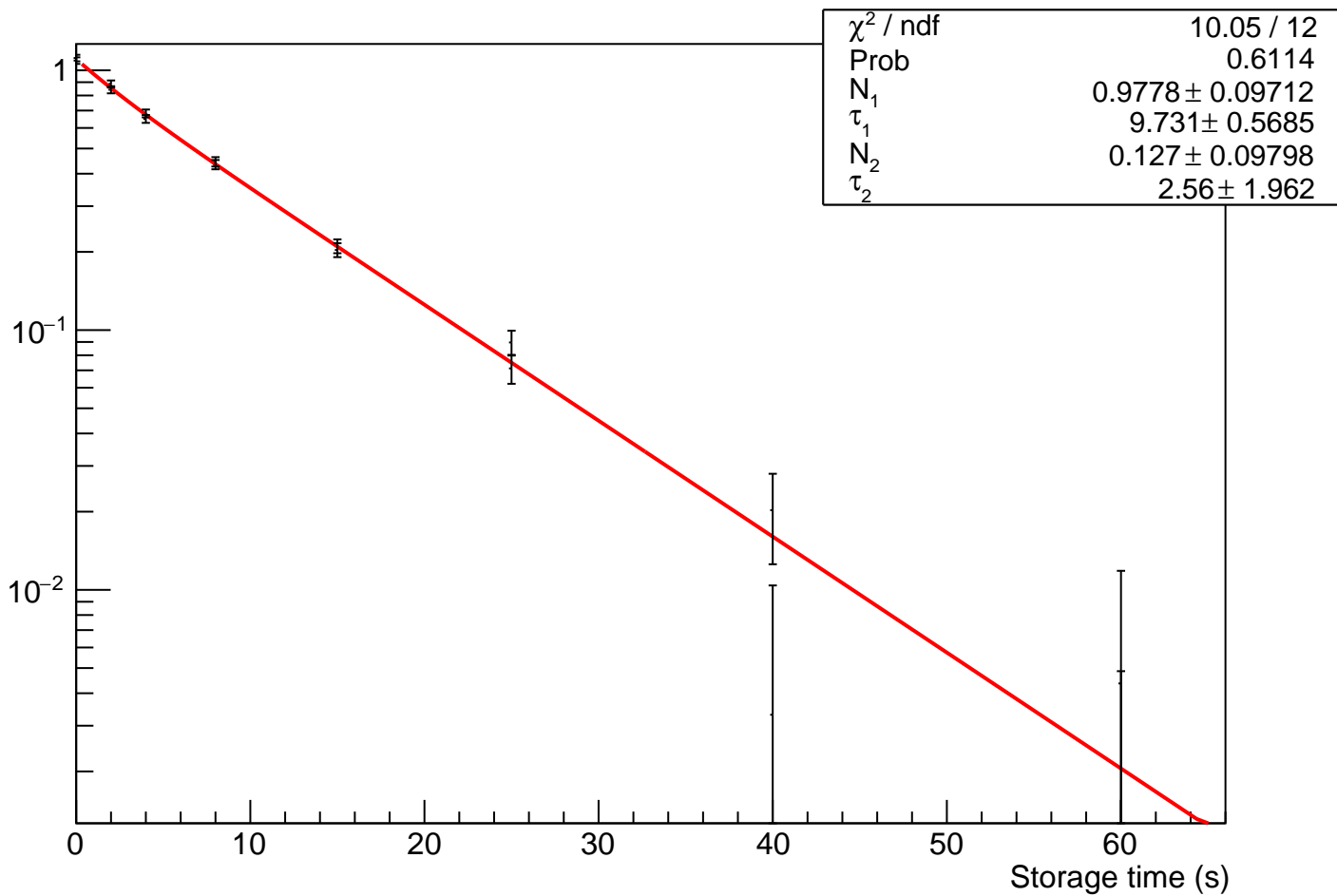


UCN-count-to-monitor ratio



TCN18-066_100A (double exponential fit, with background subtracted, normalized to monitor detector)

UCN-count-to-monitor ratio



TCN18-066_100A (single exponential fit + background, unnormalized)

UCN count

10^3

0

10

20

30

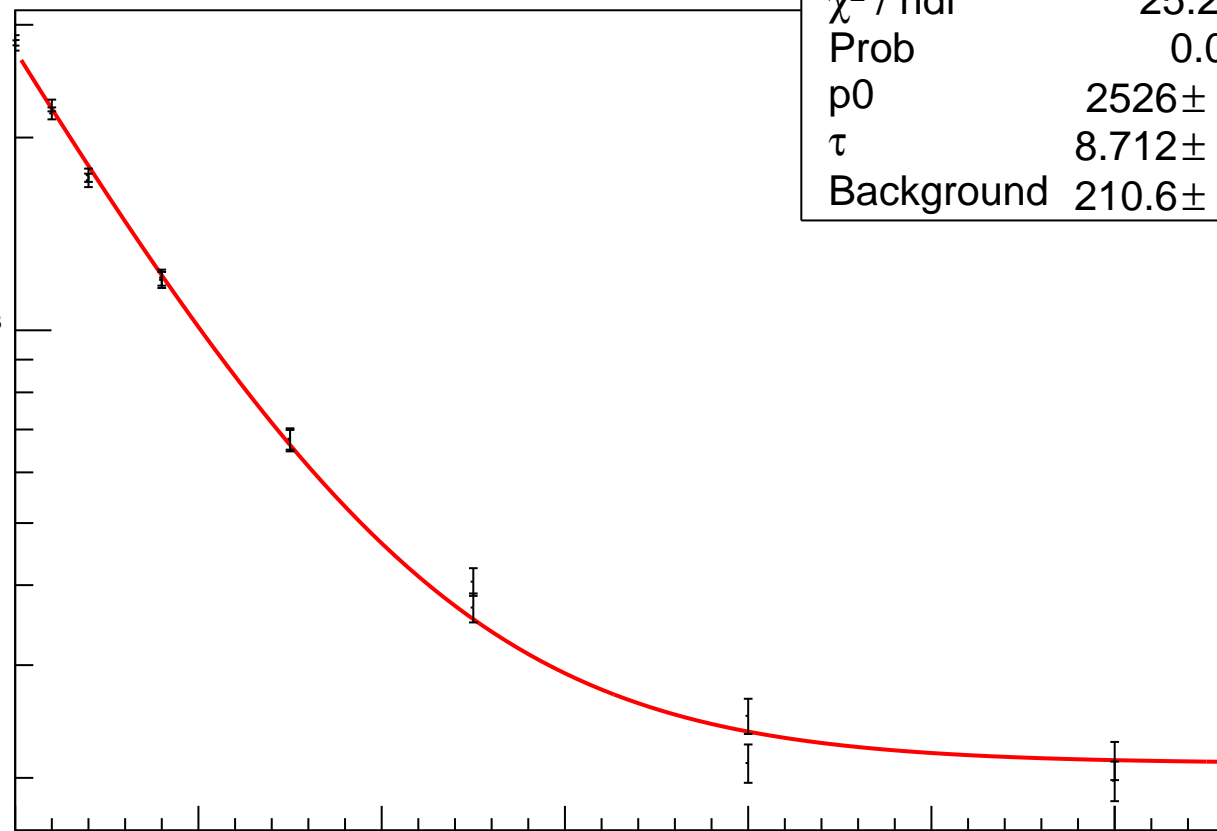
40

50

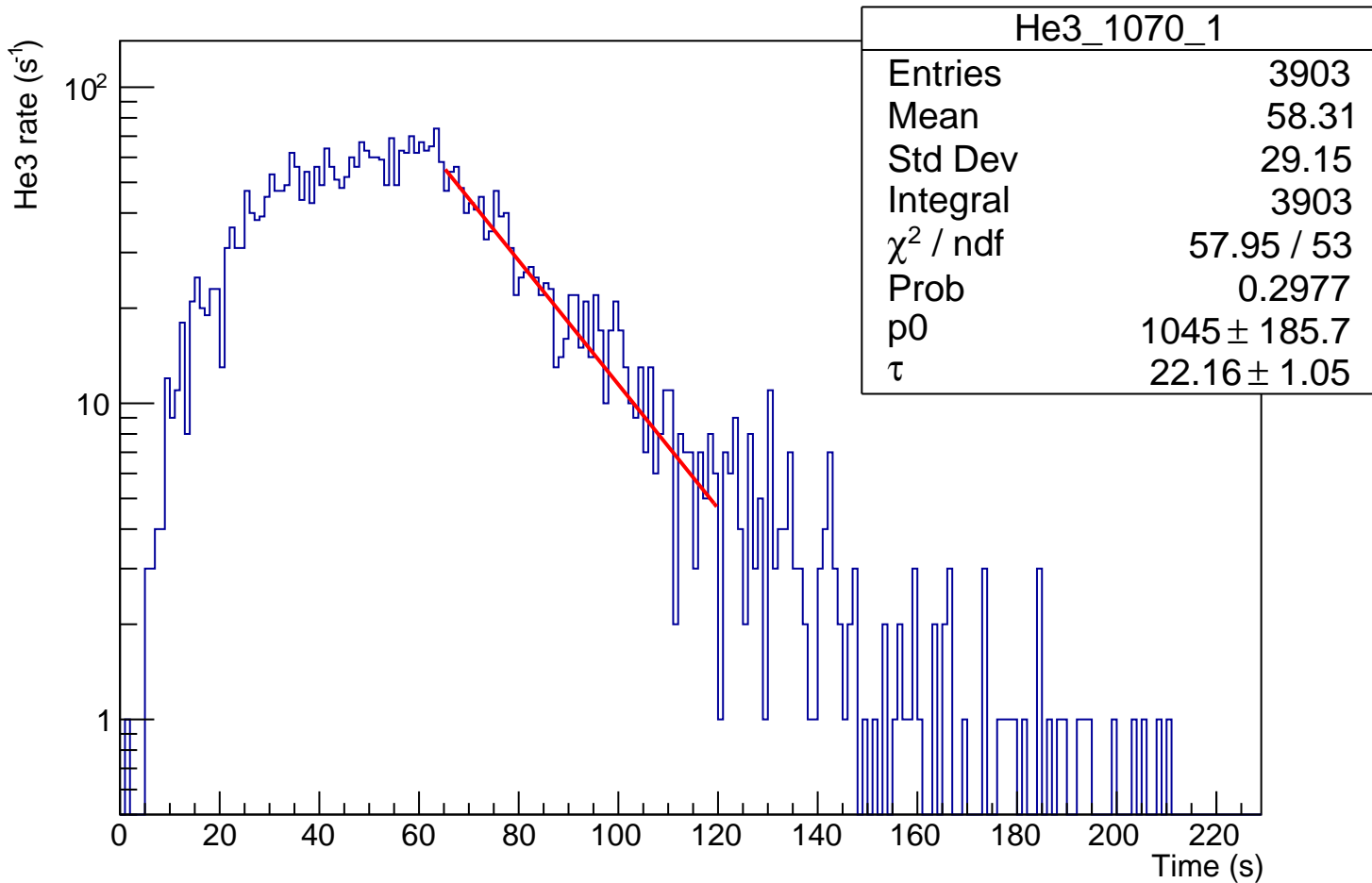
60

Storage time (s)

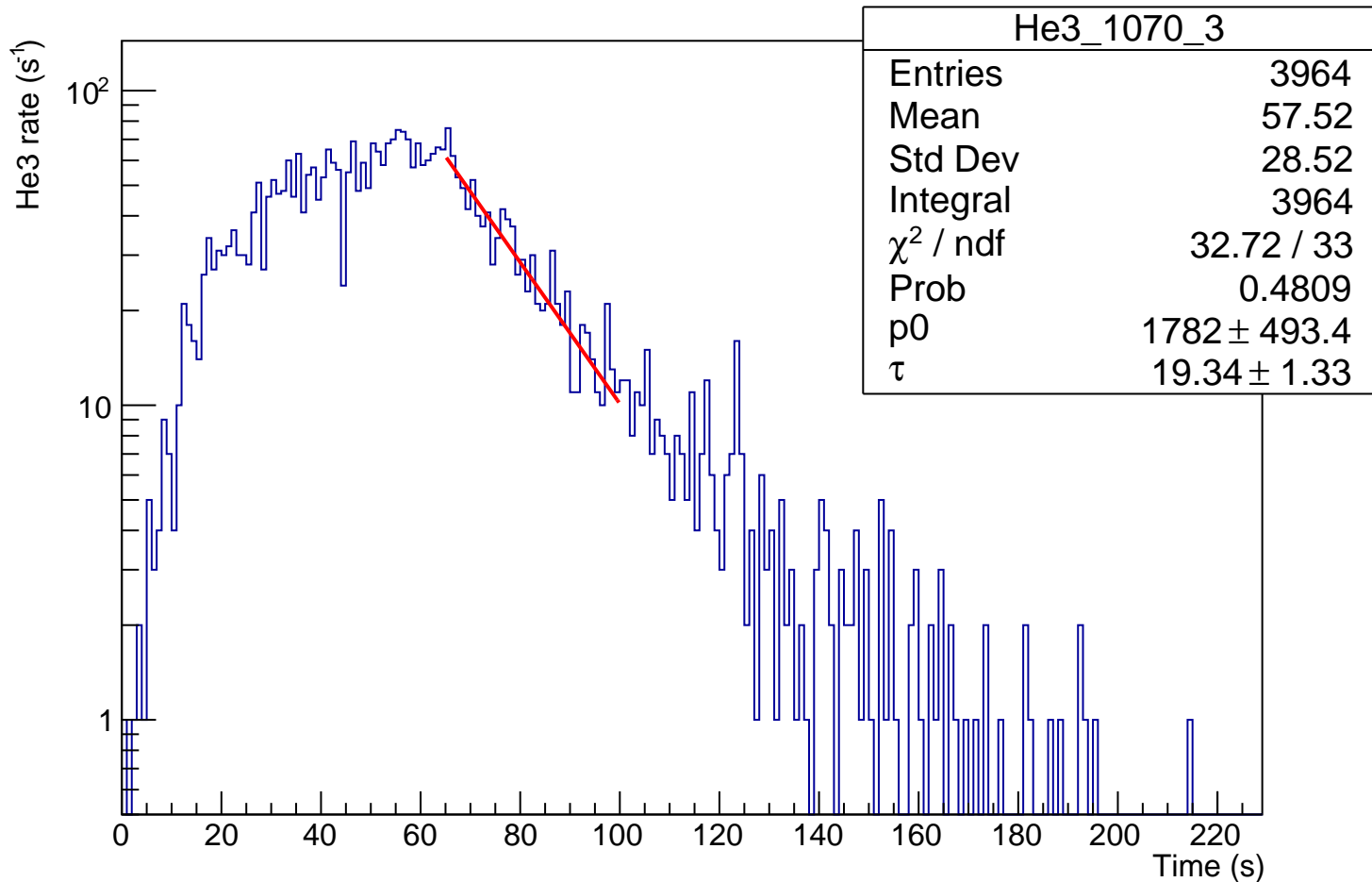
χ^2 / nfd	25.24 / 13
Prob	0.02145
p0	2526 ± 27.98
τ	8.712 ± 0.196
Background	210.6 ± 7.806



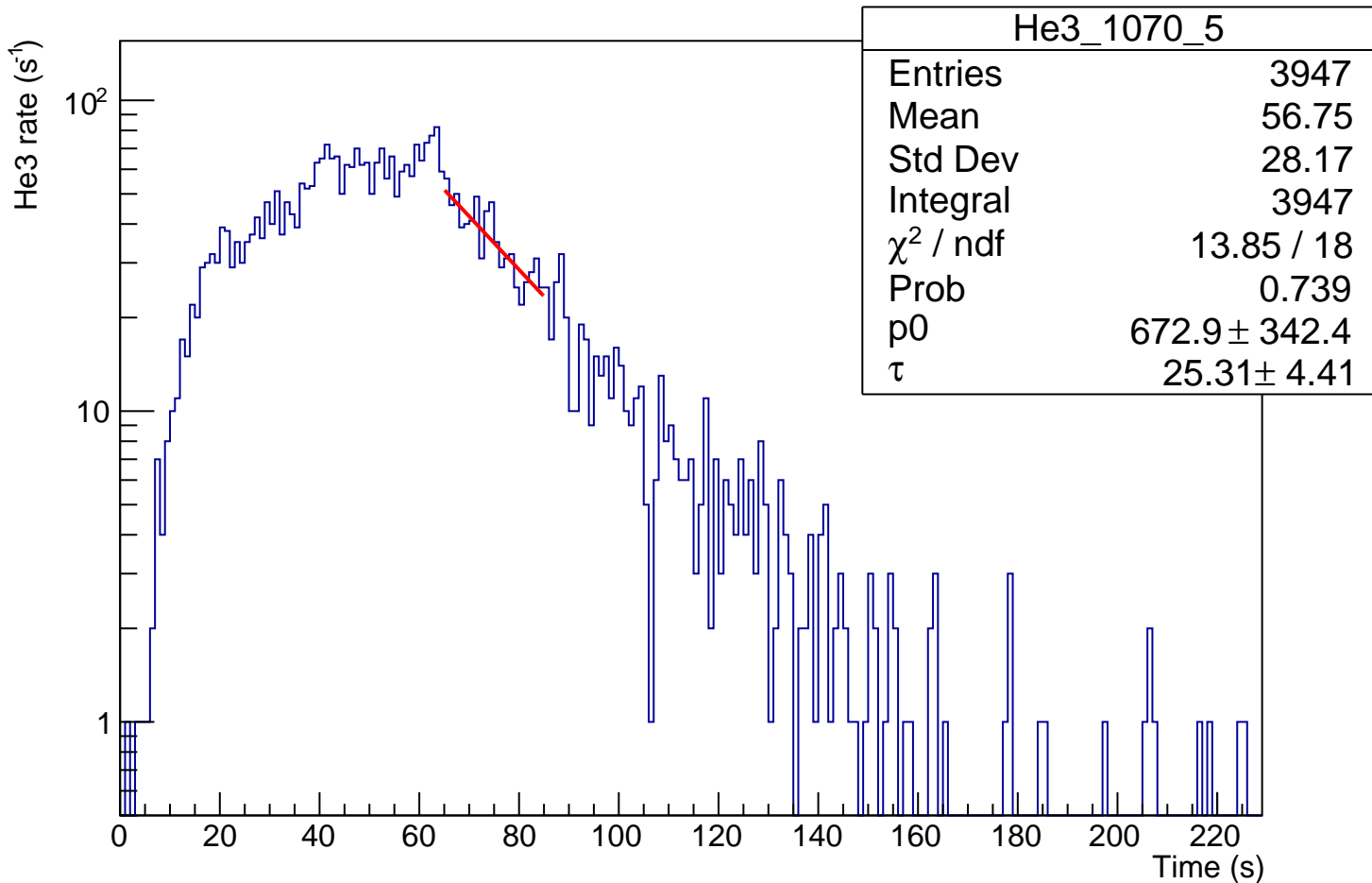
He3 detector rate



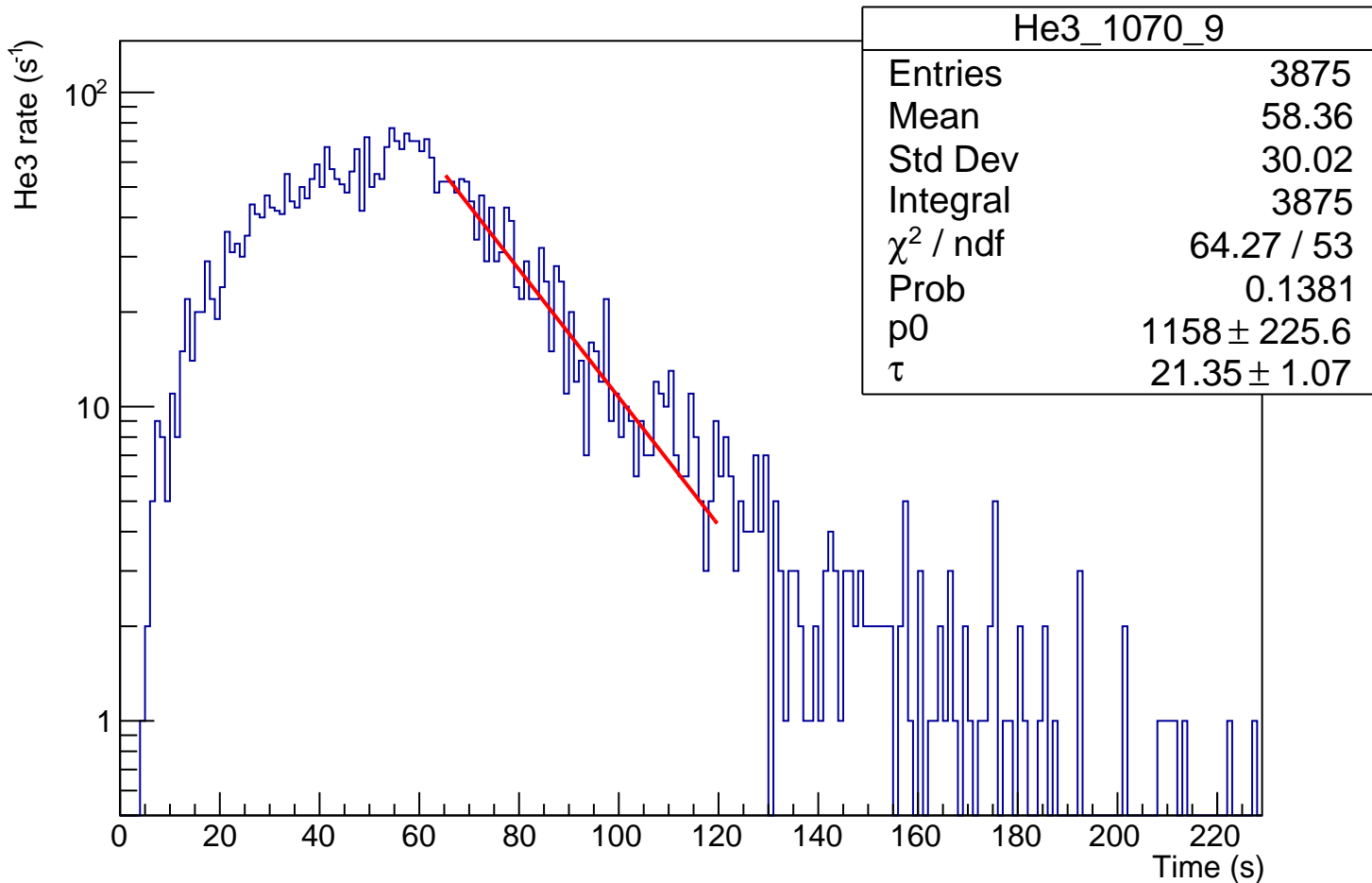
He3 detector rate



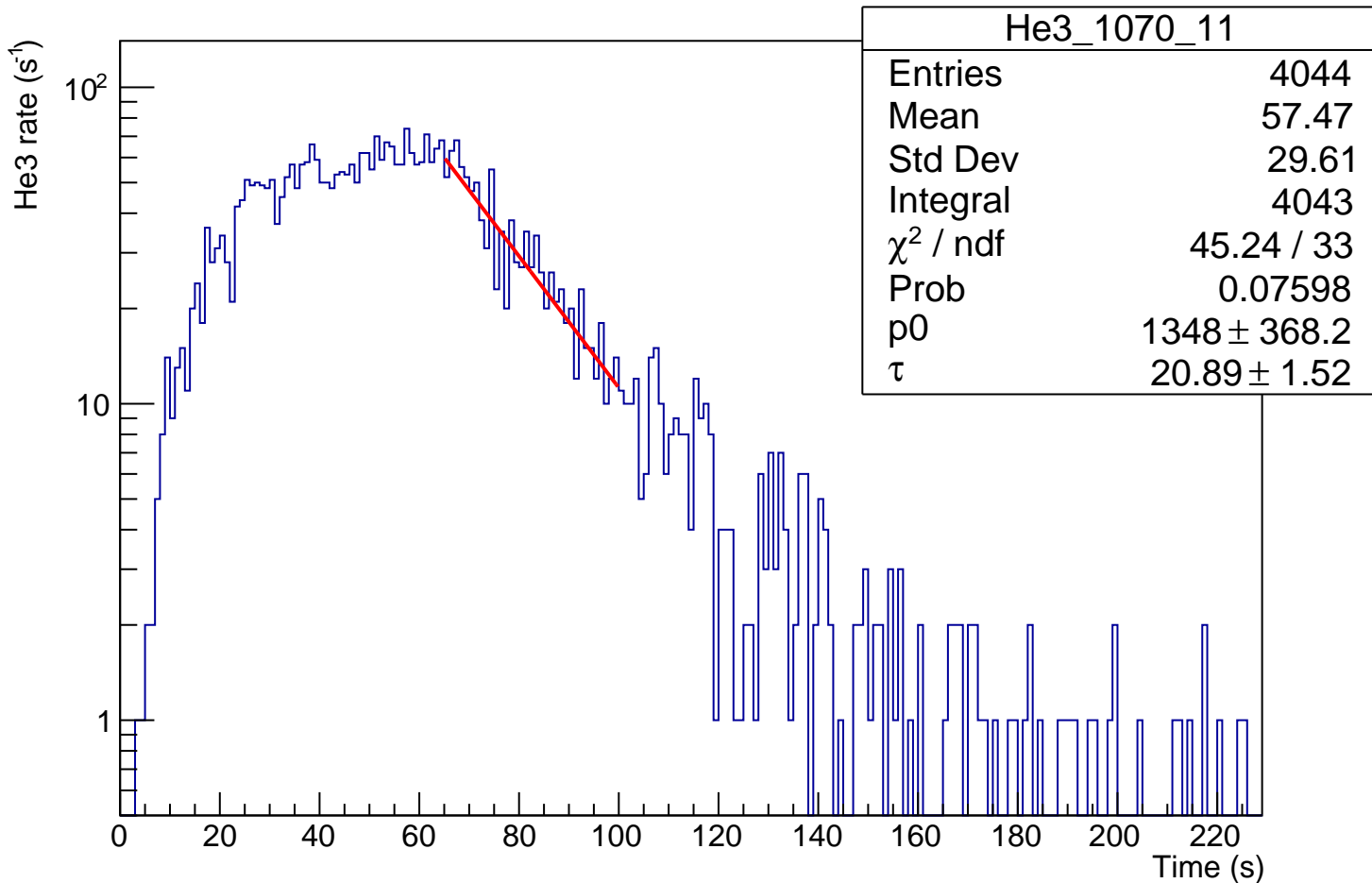
He3 detector rate



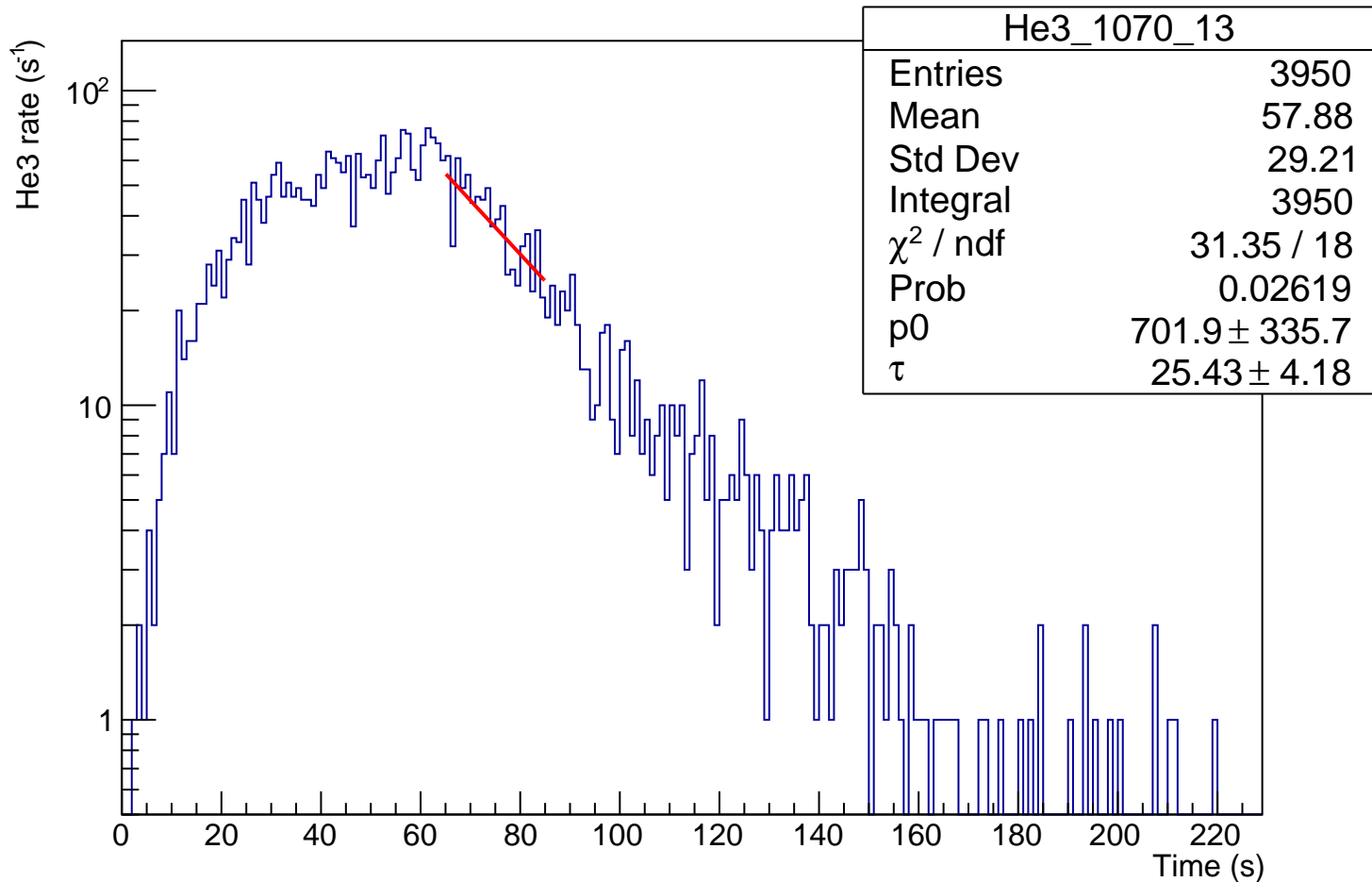
He3 detector rate



He3 detector rate



He3 detector rate



Average lifetime from He3 data:

$$\tau = 21.2925599339 \pm 0.119561858673 \text{ s}$$