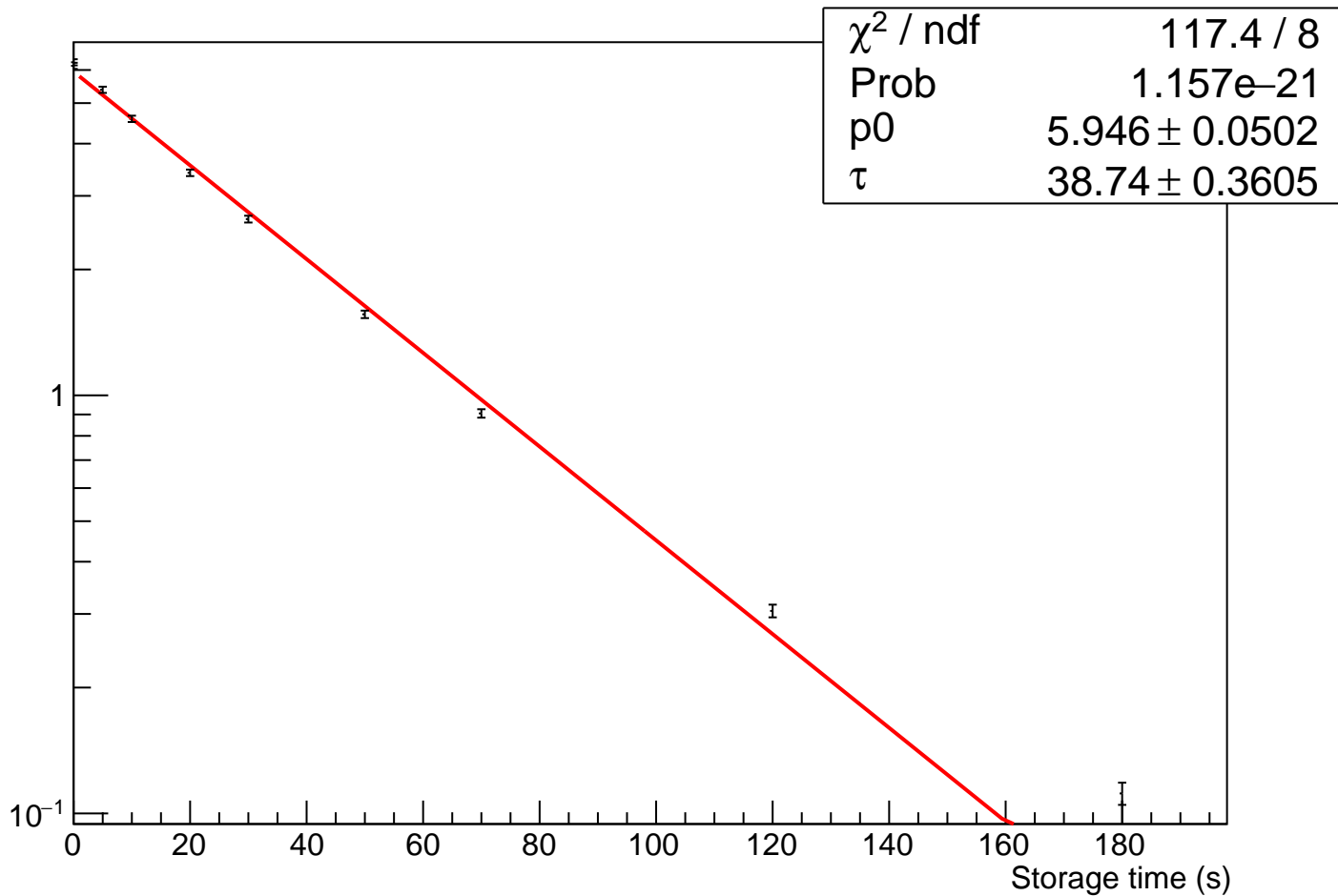
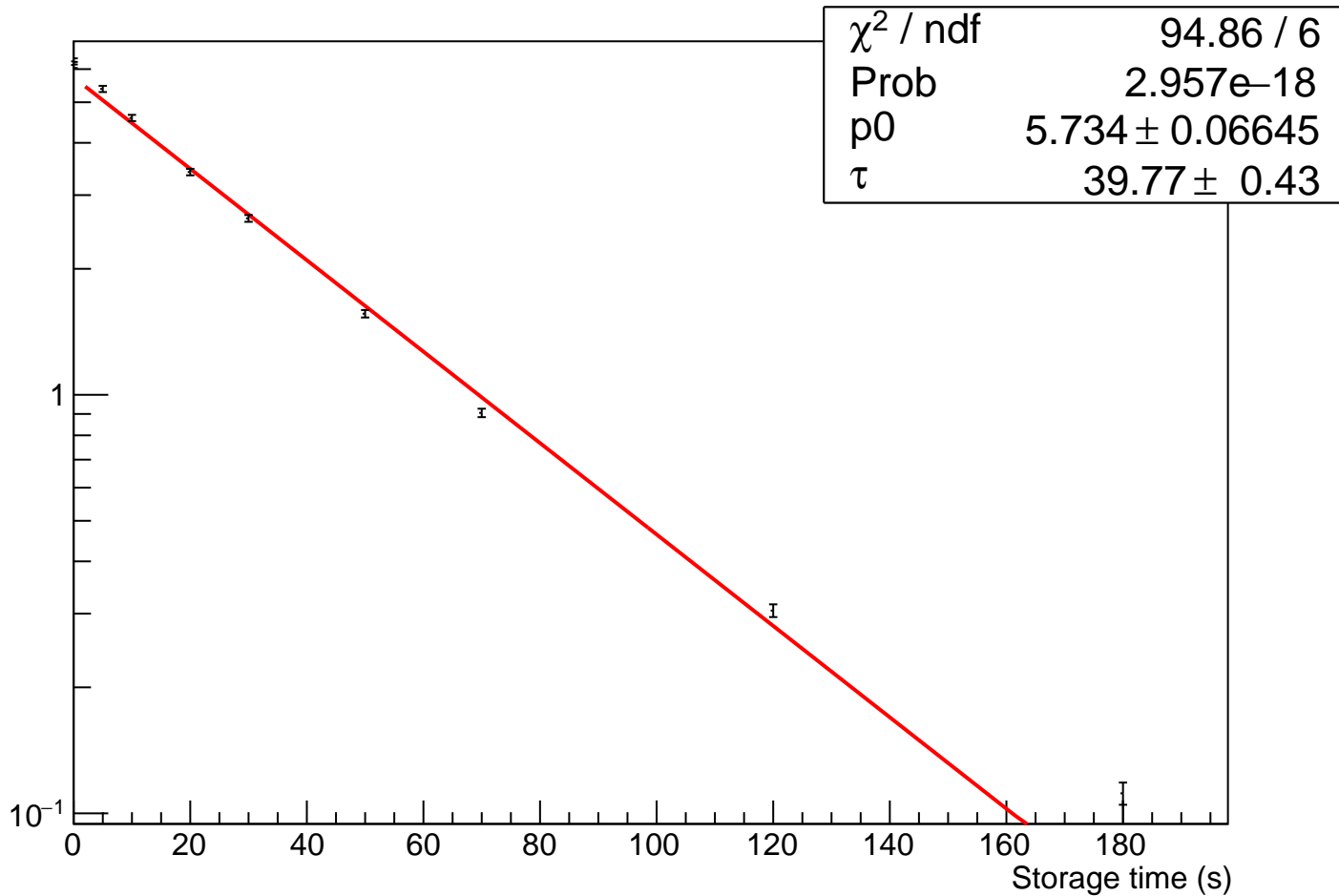


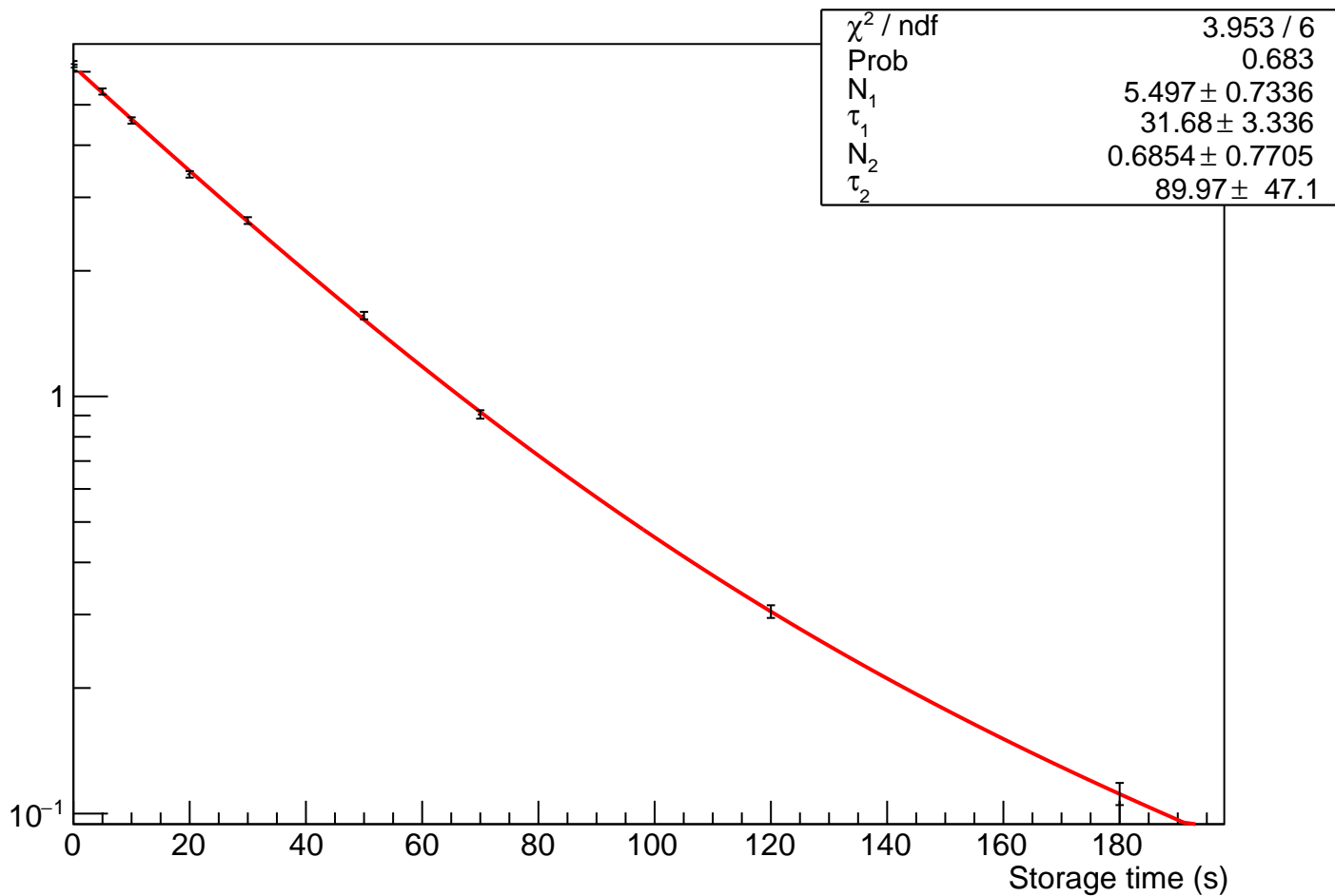
UCN-count-to-monitor ratio



UCN-count-to-monitor ratio



UCN-count-to-monitor ratio



TCN18-033 (IV1-IV2, with elbow) (single exponential fit + background, unnormalized)

UCN count

10^4

10^3

0

20

40

60

80

100

120

140

160

180

Storage time (s)

χ^2 / ndf

58.6 / 7

Prob

$2.872\text{e-}10$

p0

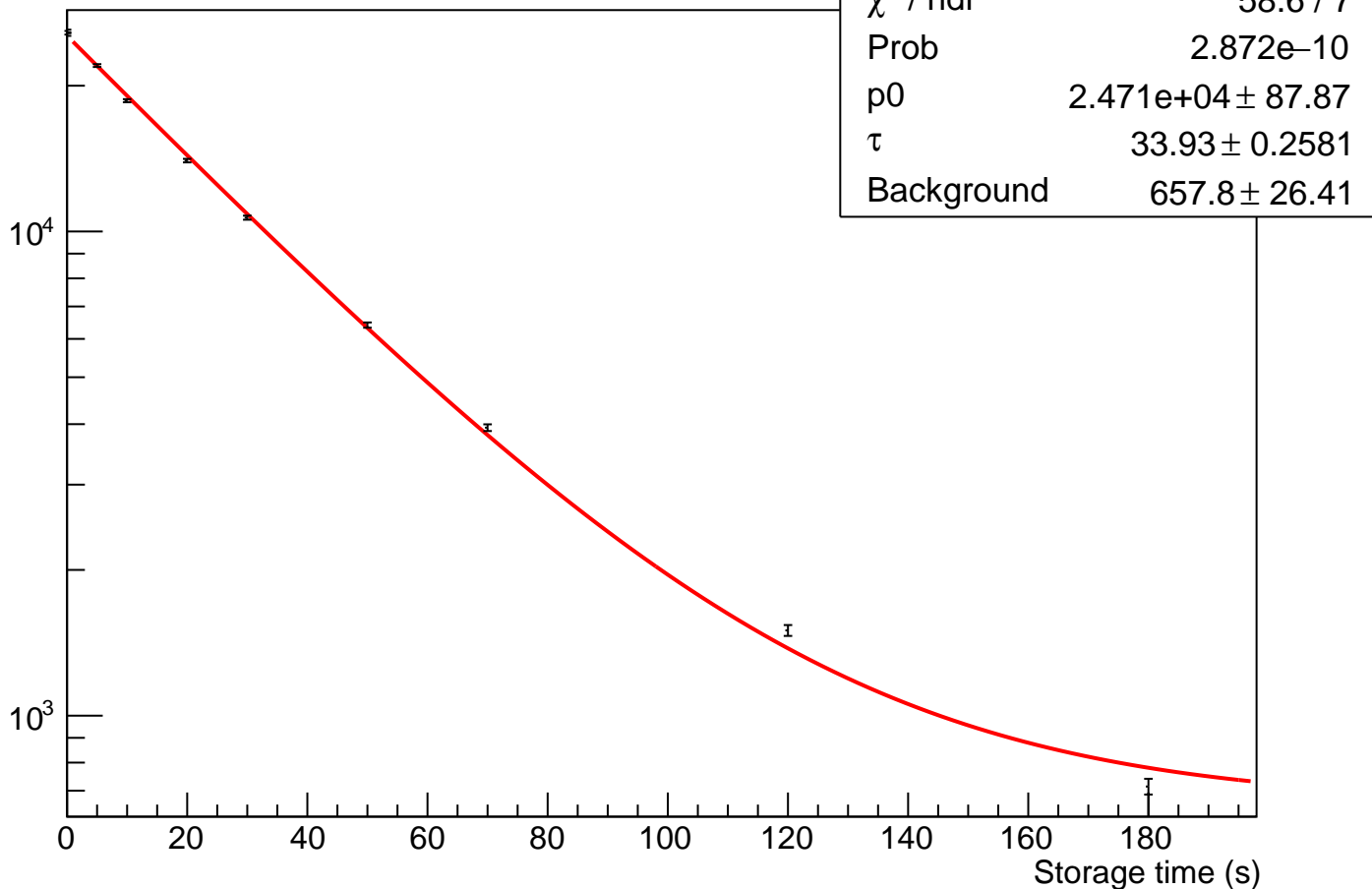
$2.471\text{e+}04 \pm 87.87$

τ

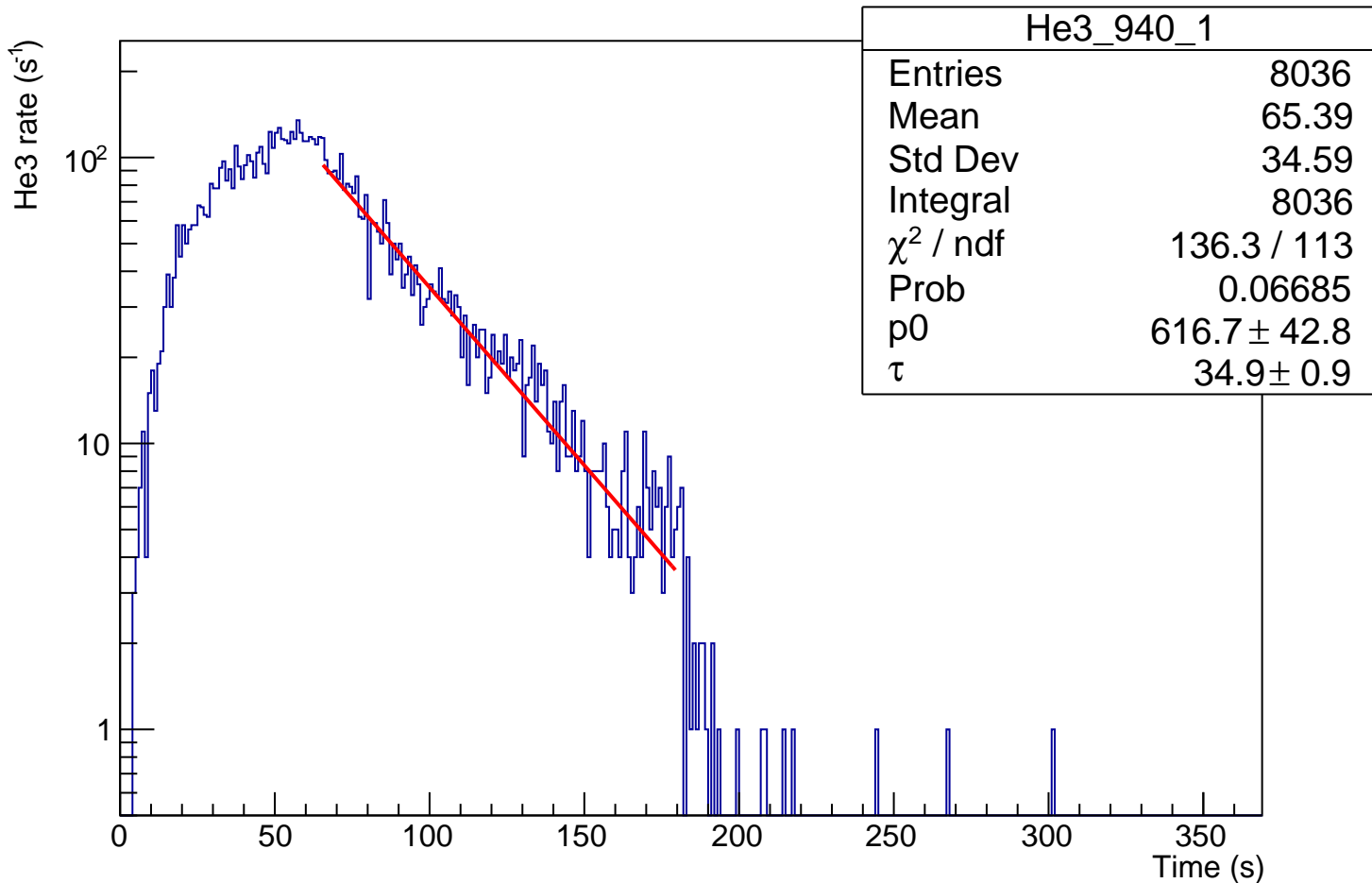
33.93 ± 0.2581

Background

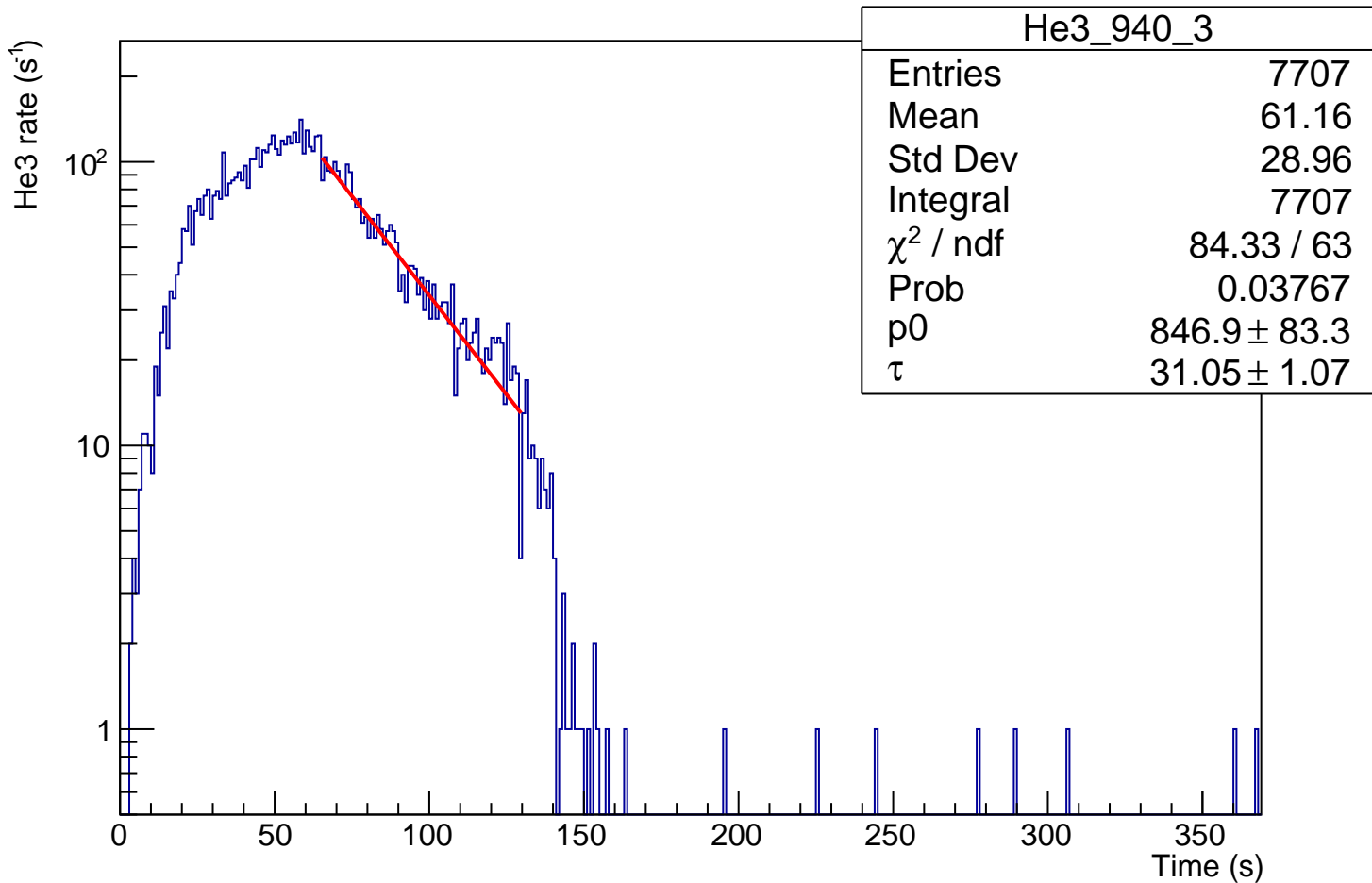
657.8 ± 26.41



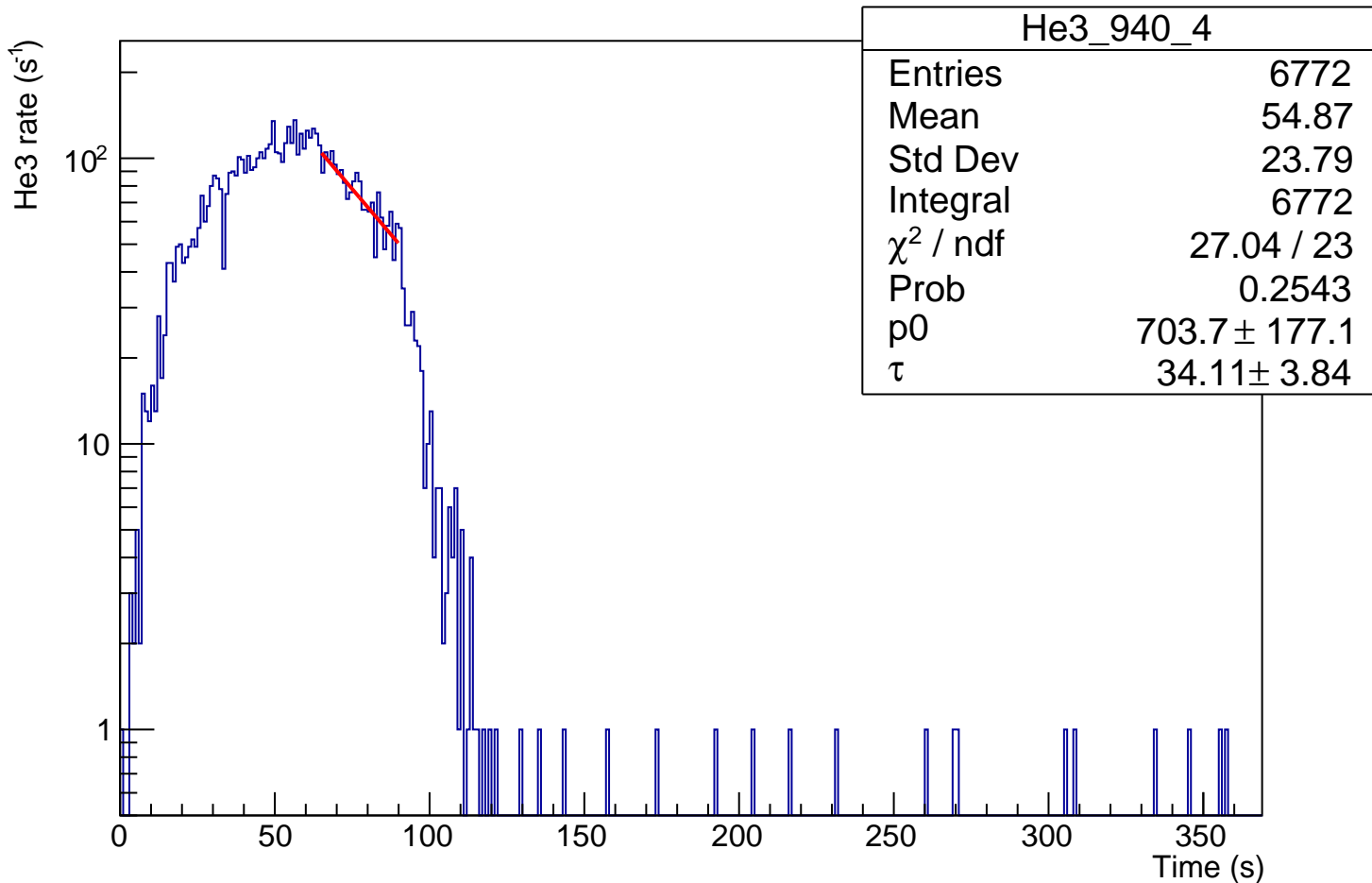
He3 detector rate



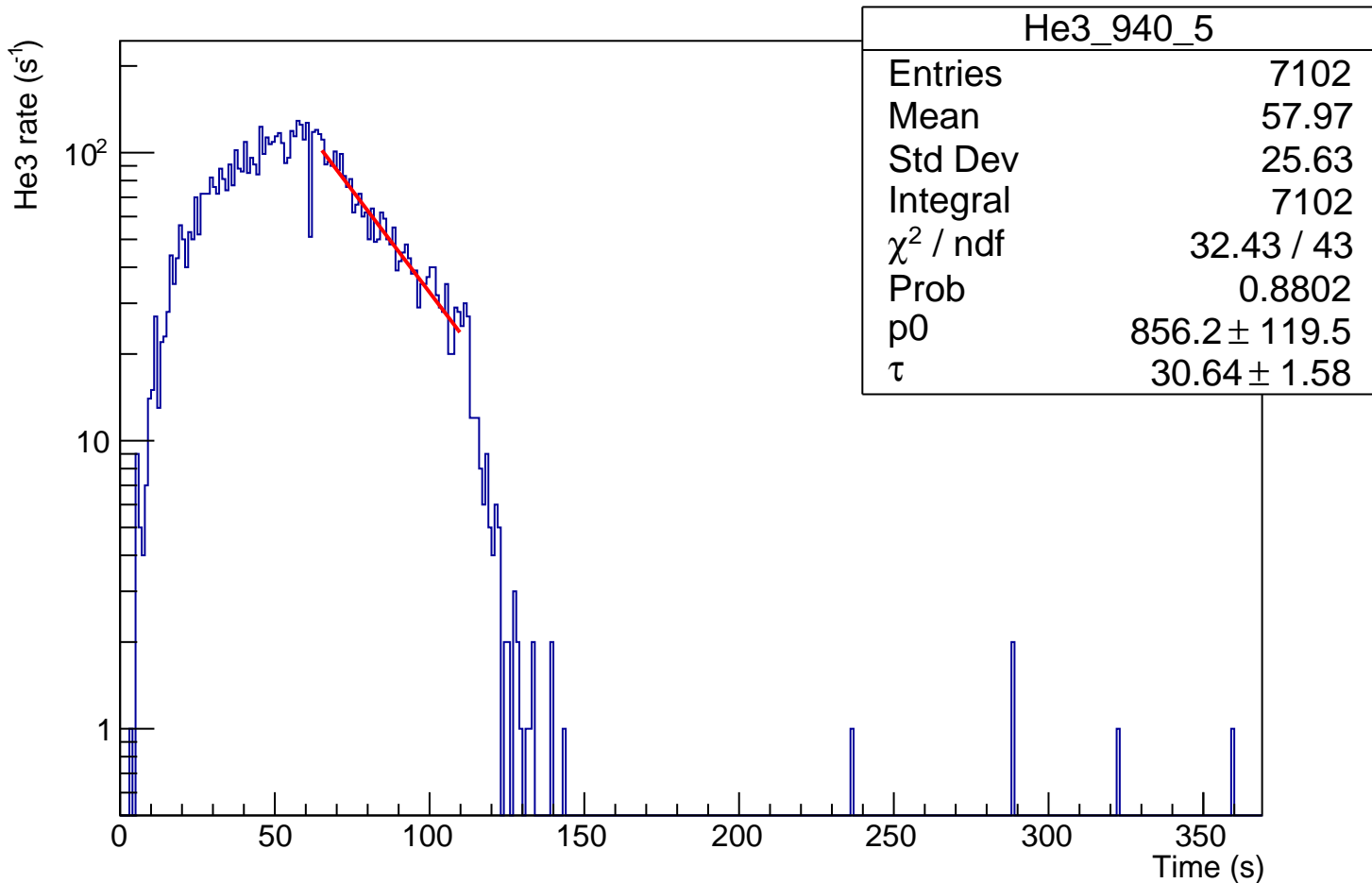
He3 detector rate



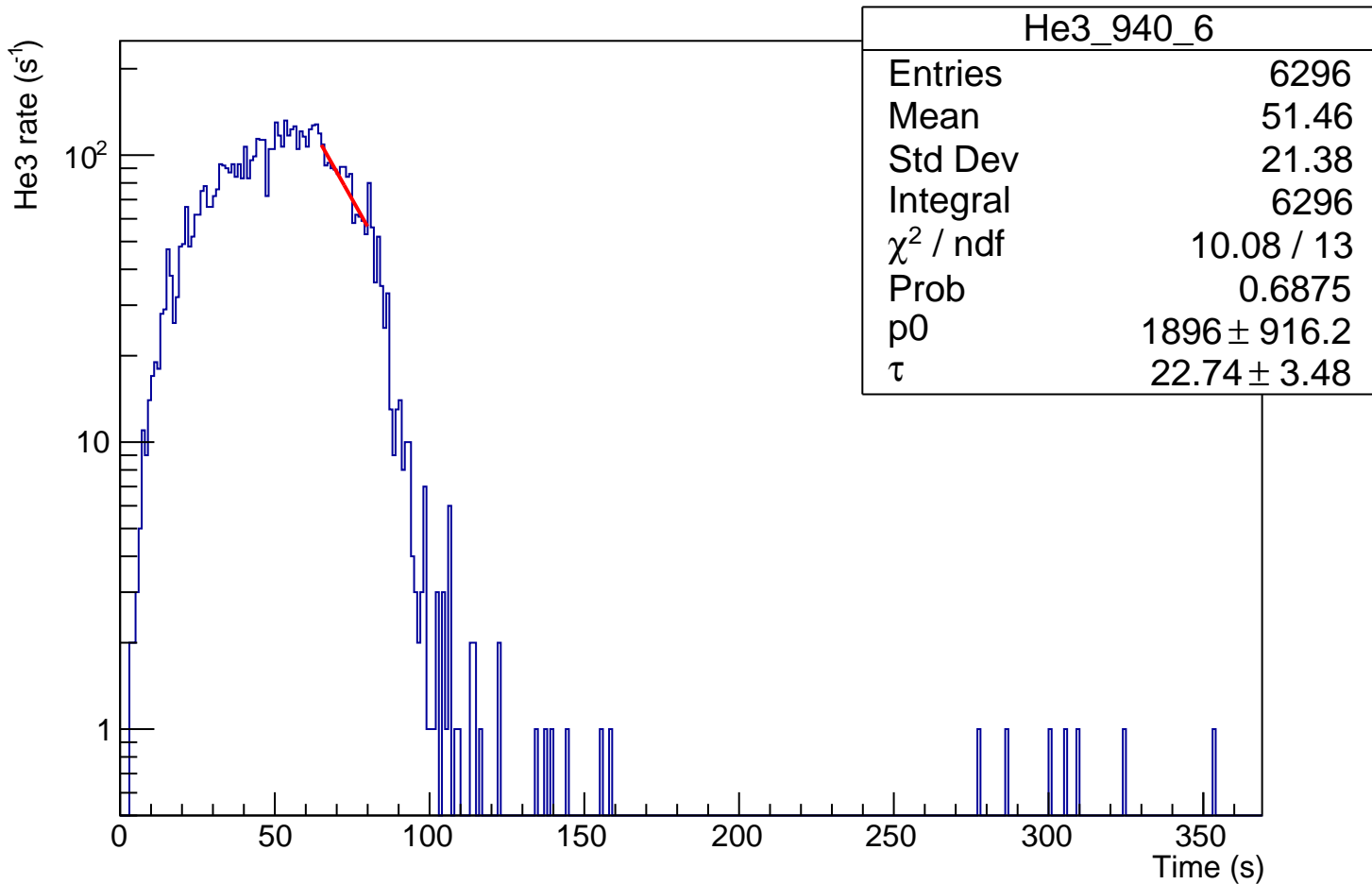
He3 detector rate



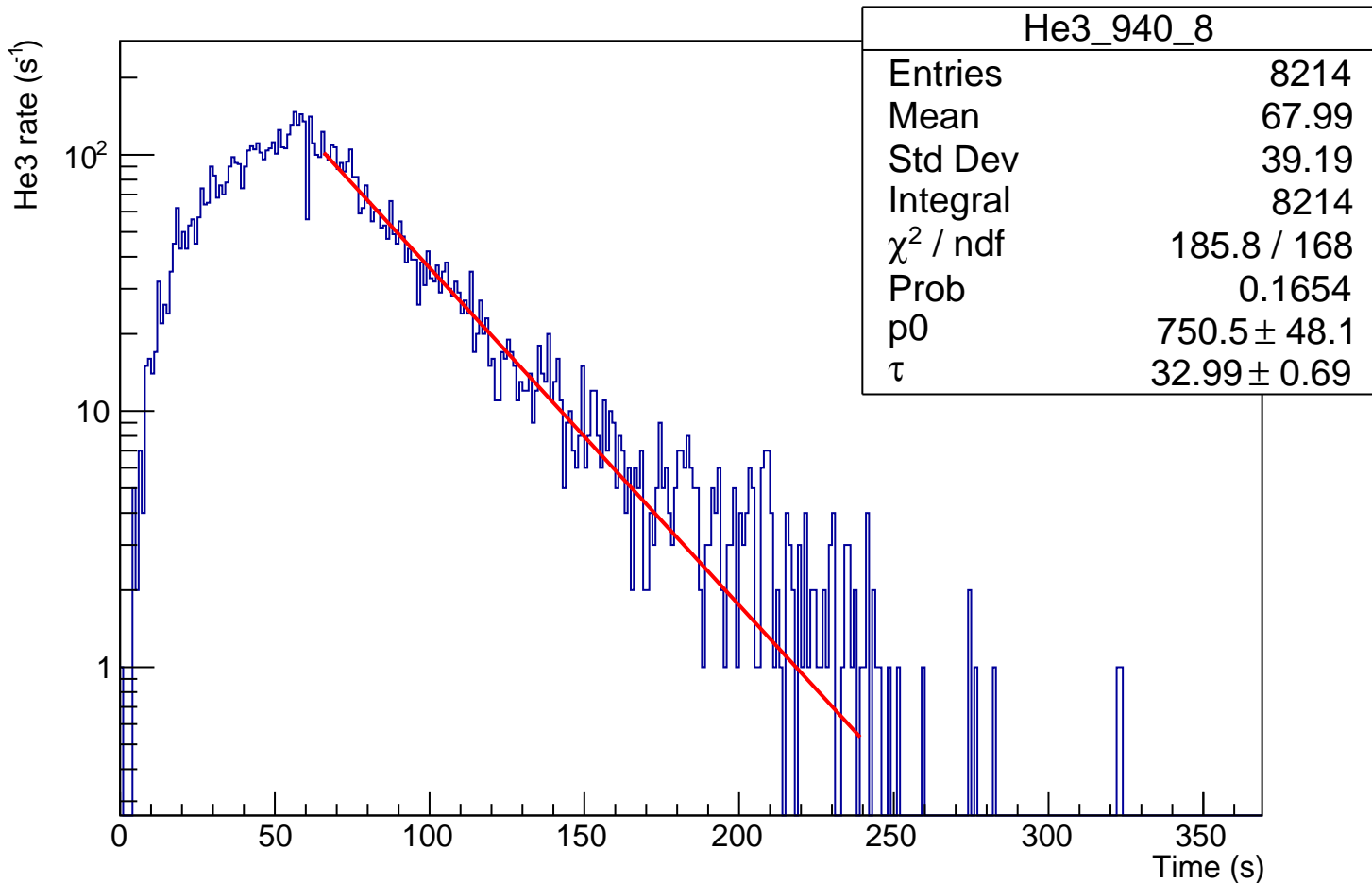
He3 detector rate



He3 detector rate



He3 detector rate



Average lifetime from He3 data:

$$\tau = 32.8271772719 \pm 0.0421716373395 \text{ s}$$