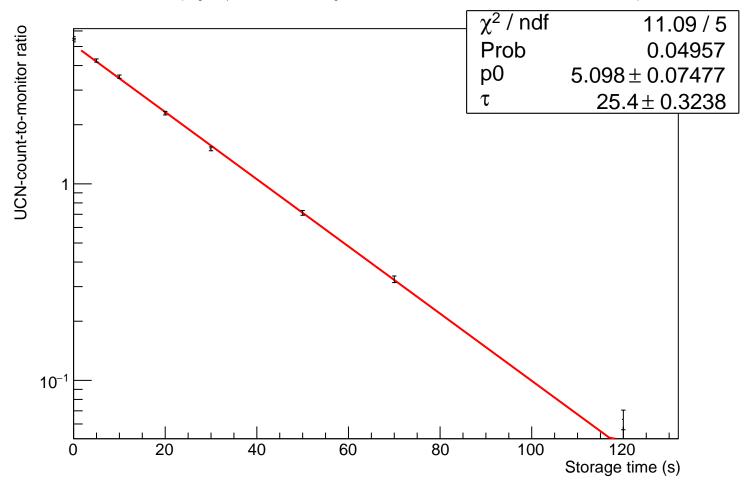
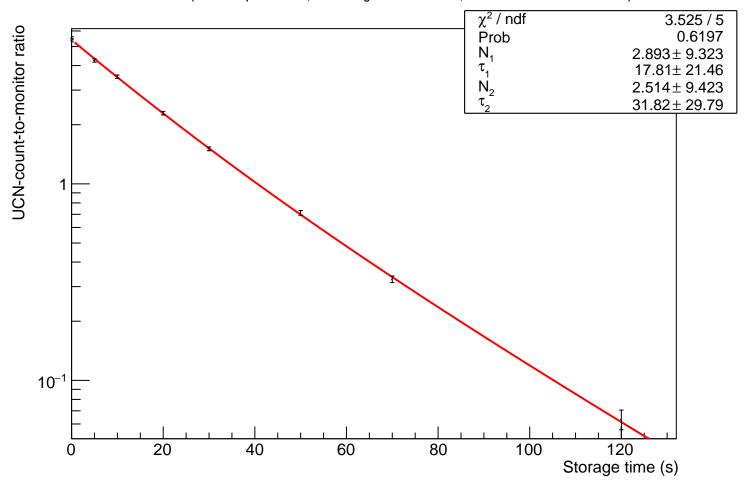
TCN18-052 (single exponential fit, with background subtracted, normalized to monitor detector) χ^2 / ndf 22.64 / 7 Prob 0.001965 p0 5.279 ± 0.05253 24.81 ± 0.2613 10^{-1} 20 40 60 80 100 120

Storage time (s)

UCN-count-to-monitor ratio

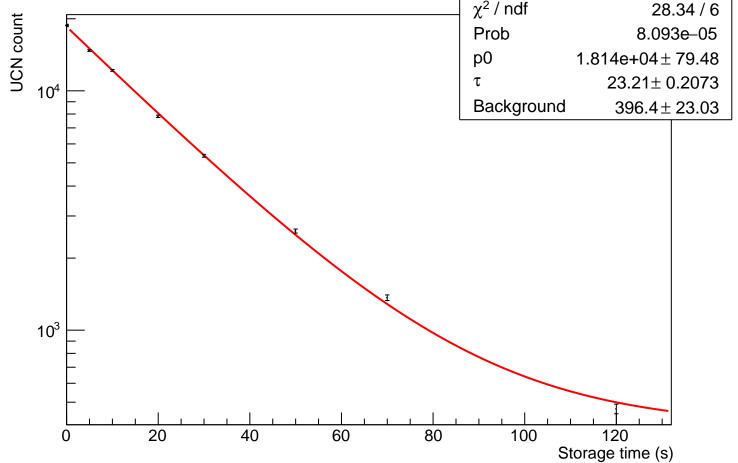


TCN18-052 (double exponential fit, with background subtracted, normalized to monitor detector)

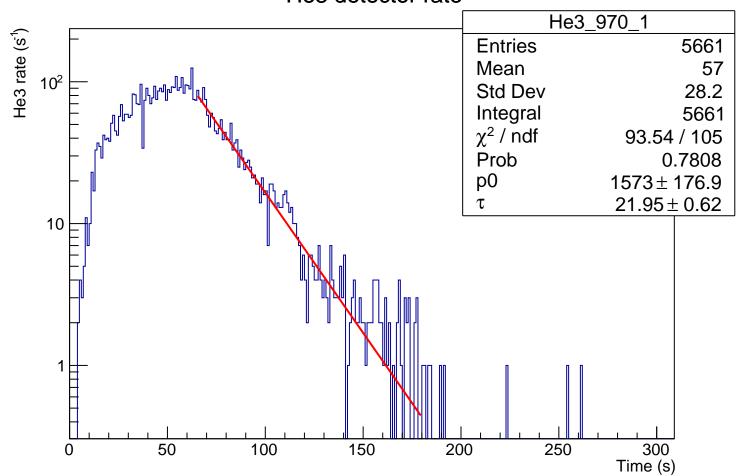


TCN18-052 (single exponential fit + background, unnormalized)

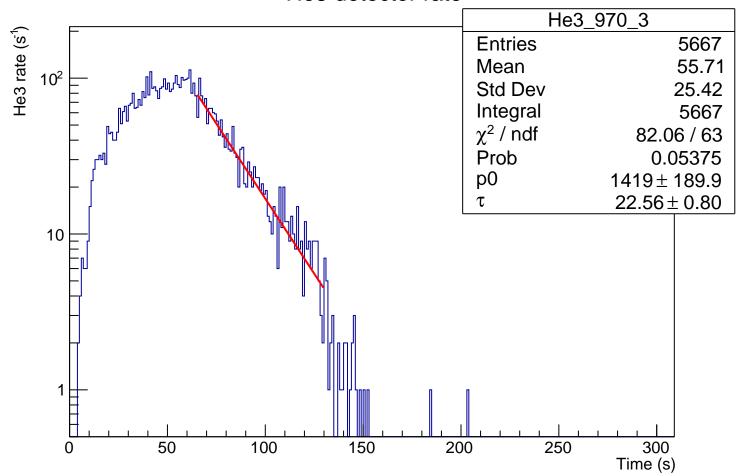
χ² / ndf



He3 detector rate



He3 detector rate



He3 detector rate He3_970_4 He3 rate (s¹) **Entries** 5257 51.6 Mean 10^{2} Std Dev 22 Integral 5257 χ^2 / ndf 34.85 / 23 Prob 0.05385 p0 2589 ± 893.1 19.02 ± 1.66 10

150

200

300

Time (s)

250

100

50

He3 detector rate He3_970_5 He3 rate (s¹) **Entries** 5500 55.12 Mean 10^{2} Std Dev 24.1 Integral 5500 χ^2 / ndf 44 / 43 Prob 0.4289 p0 1498 ± 264.3 22.4 ± 1.1 10

150

50

100

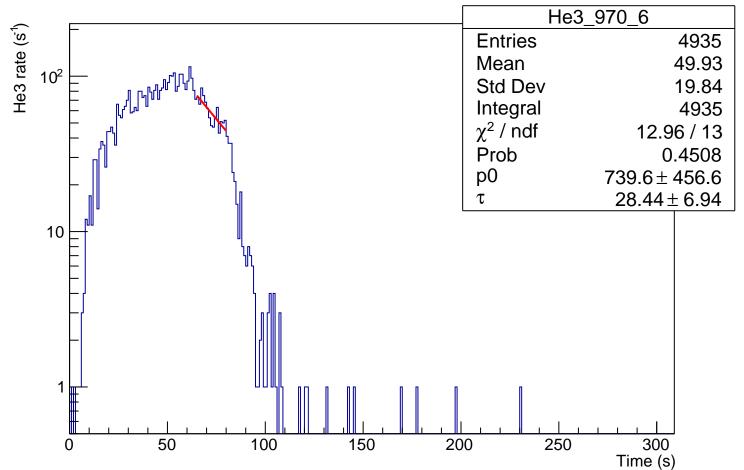
200

250

300

Time (s)

He3 detector rate



Average lifetime from He3 data:

 τ = 22.0256158602 +/- 0.0339213873705 s