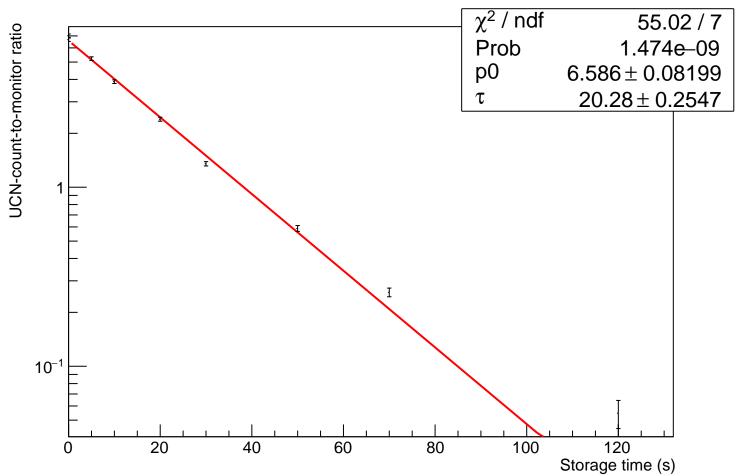
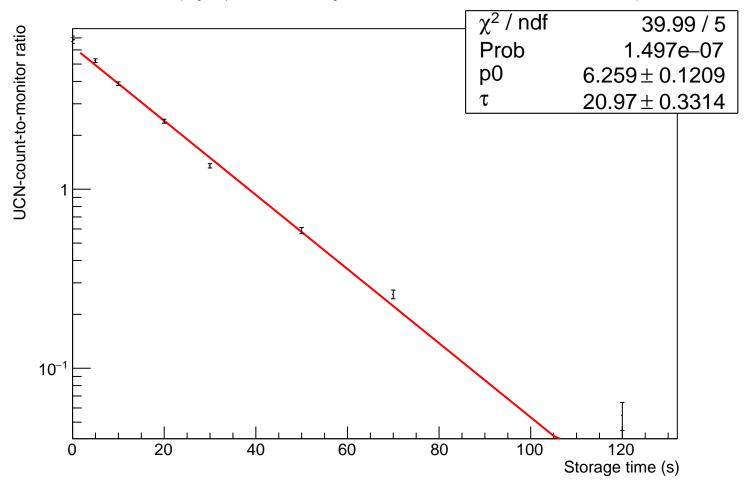
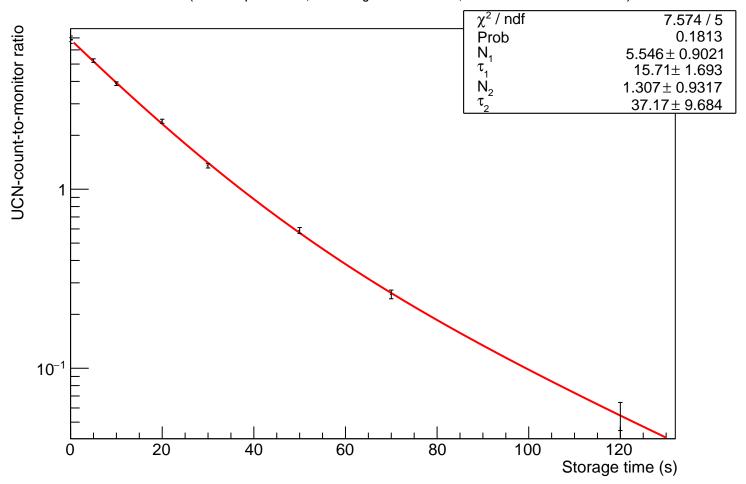
TCN18-092 (single exponential fit, with background subtracted, normalized to monitor detector)





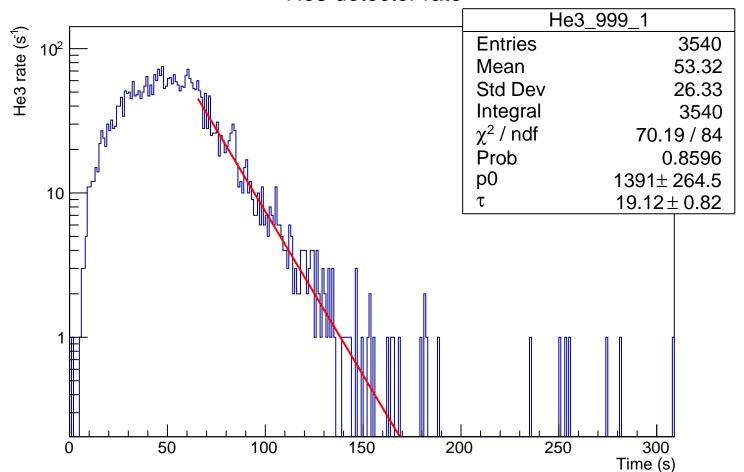
TCN18-092 (double exponential fit, with background subtracted, normalized to monitor detector)



TCN18-092 (single exponential fit + background, unnormalized) χ^2 / ndf 55.43 / 6 UCN count Prob 3.803e-10 p0 $1.554e+04\pm 76.8$ 10^{4} 18.4 ± 0.1744 Background 420.9 ± 18.19 10³ 120 20 40 60 80 100

Storage time (s)

He3 detector rate



He3 detector rate He3_999_3 He3 rate (\bar{s}^1) **Entries** 3495 10^{2} Mean 51.93 Std Dev 24.18 Integral 3495 χ^2 / ndf 65.73 / 59 Prob 0.2551 p0 1443 ± 344.9 18.5 ± 1.0 10

150

200

250

300

Time (s)

100

50

He3 detector rate He3_999_4 He3 rate (s¹) **Entries** 3478 10^{2} 50.72 Mean Std Dev 21.5 Integral 3478 χ^2 / ndf 39.45 / 23 Prob 0.0177 p0 7110 ± 2989.9 13.53 ± 1.04 10 100 200 300 50 150 250

Time (s)

He3 detector rate He3_999_5 He3 rate (\bar{s}^1) **Entries** 3402 10^{2} Mean 51.93 Std Dev 23.03 Integral 3402 χ^2 / ndf 65.58 / 43 Prob 0.01484 p0 4388 ± 1444.9 14.73 ± 0.92 10

150

200

300

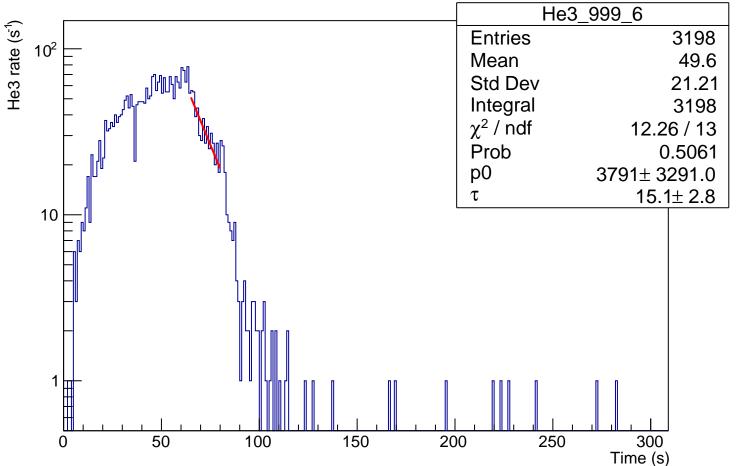
Time (s)

250

100

50

He3 detector rate



Average lifetime from He3 data:

 τ = 16.6751491377 +/- 0.0447155346776 s