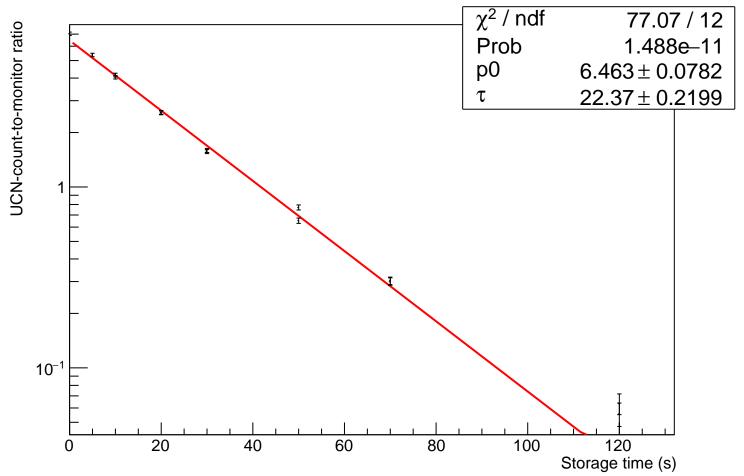
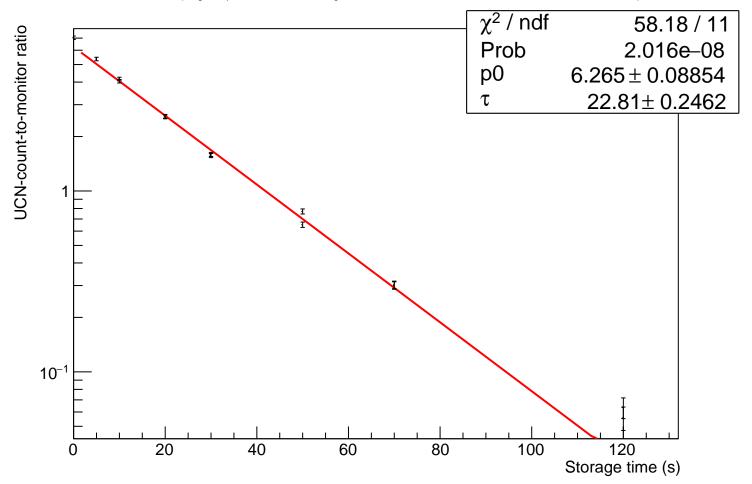
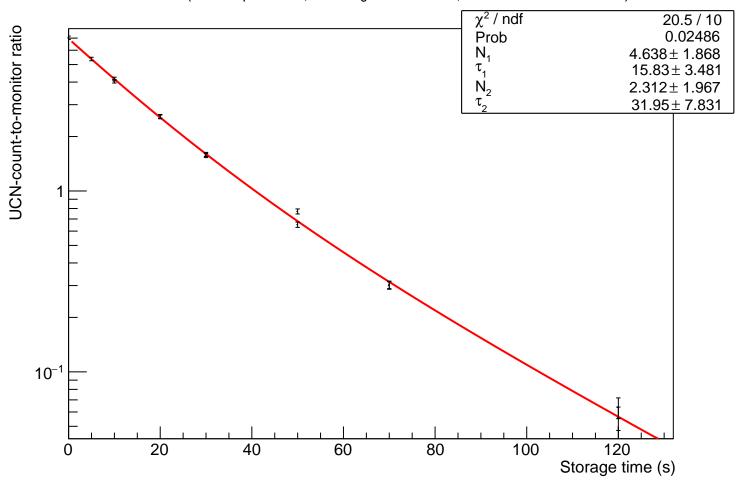
TCN18-055 (single exponential fit, with background subtracted, normalized to monitor detector)



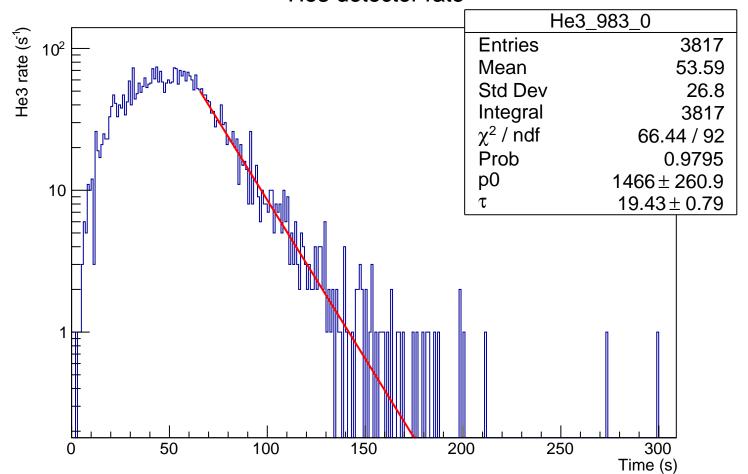


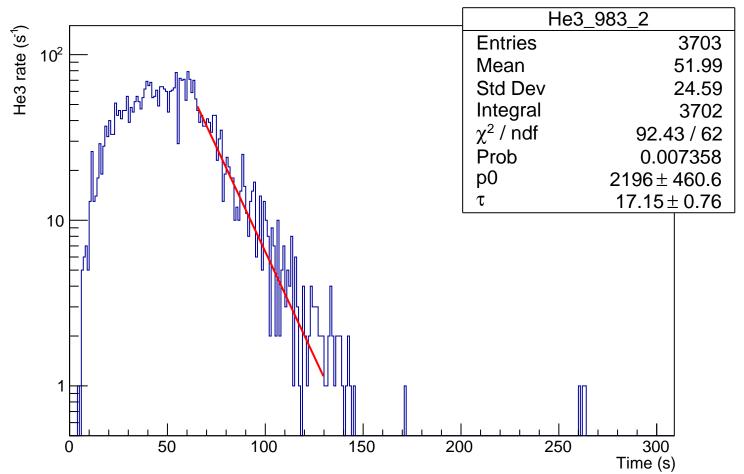
TCN18-055 (double exponential fit, with background subtracted, normalized to monitor detector)



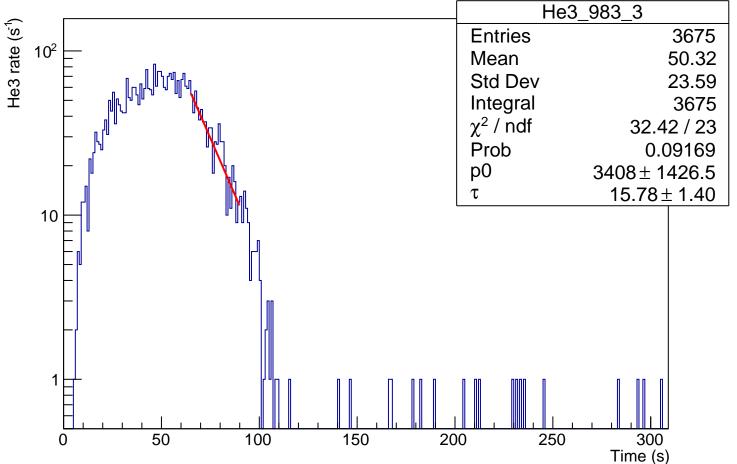
TCN18-055 (single exponential fit + background, unnormalized) χ^2 / ndf 85.67 / 11 UCN count Prob 1.169e-13 p0 $1.648e+04\pm88.56$ 10^{4} 20.56 ± 0.1594 Background 392.2 ± 14.31 10³ 120 20 40 60 80 100

Storage time (s)





He3 detector rate 10^{2}

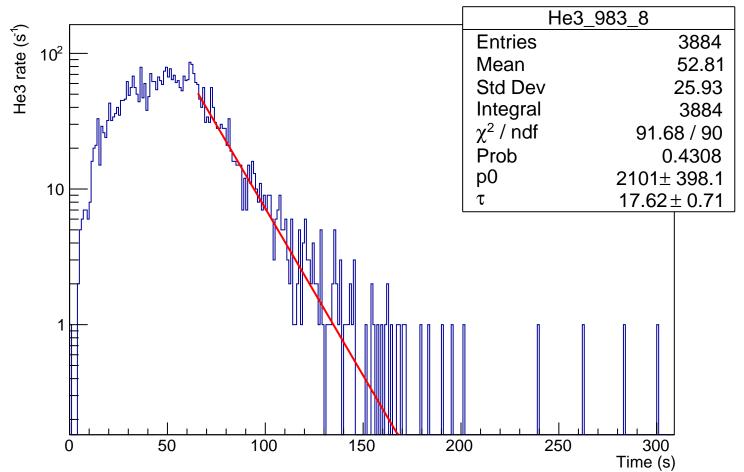


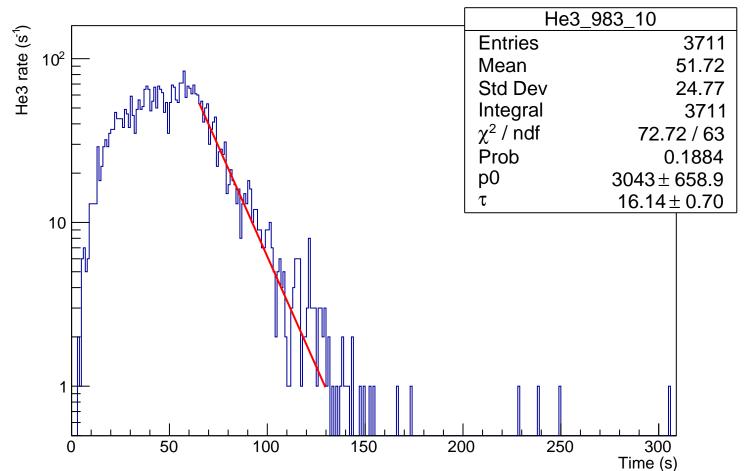
He3 detector rate He3_983_4 He3 rate (\bar{s}^1) **Entries** 3709 10^{2} Mean 51.79 Std Dev 23.7 Integral 3709 χ^2 / ndf 64.98 / 43 Prob 0.01678 p0 4055 ± 1023.5 15.23 ± 0.74 10 100 200 300 50 150 250

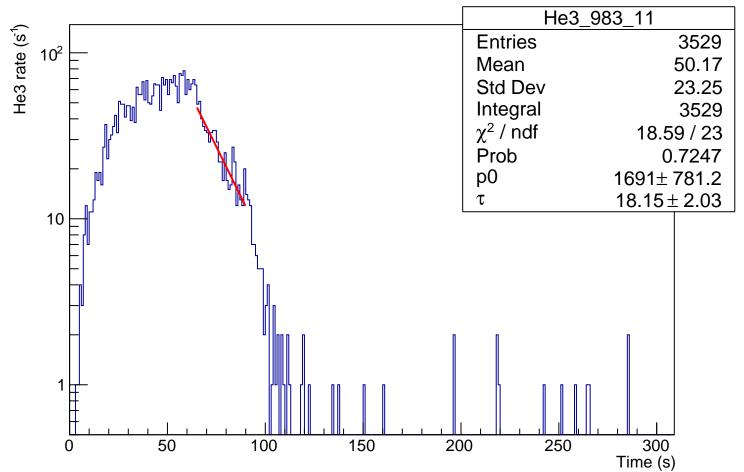
Time (s)

He3 detector rate He3_983_5 He3 rate (\bar{s}^1) **Entries** 3497 10^{2} 49.2 Mean Std Dev 21.8 Integral 3497 χ^2 / ndf 25.07 / 13 Prob 0.02261 p0 2944 ± 2558.5 16.66 ± 3.37 10 300 50 100 150 200 250

Time (s)







He3 detector rate He3_983_12 He3 rate (\bar{s}^1) **Entries** 3683 10^{2} Mean 52.16 Std Dev 24.64 Integral 3683 χ^2 / ndf 44.27 / 43 Prob 0.4178 p0 2601 ± 628.7 16.93 ± 0.87 10

150

200

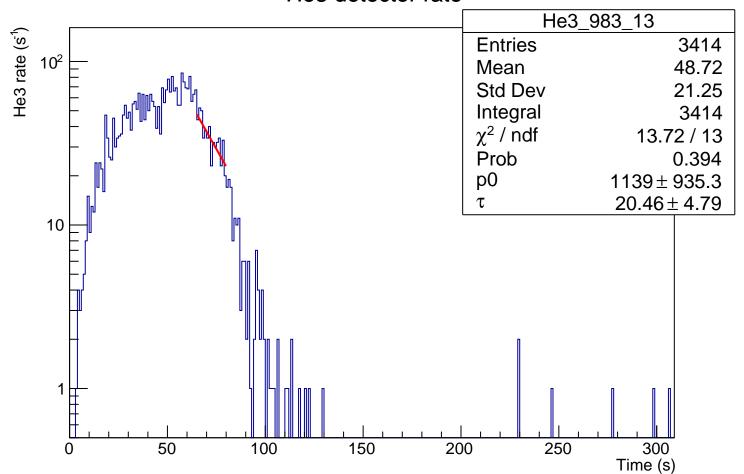
250

300

Time (s)

100

50



Average lifetime from He3 data:

 $\tau = 17.0088459377 + -0.00767846178561 s$