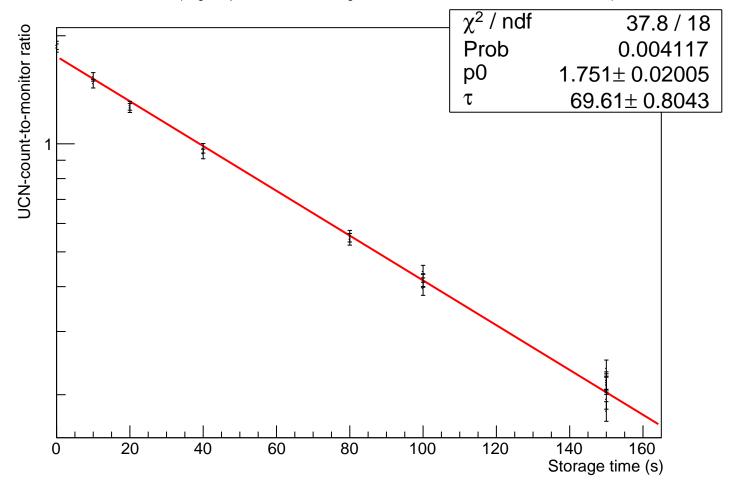
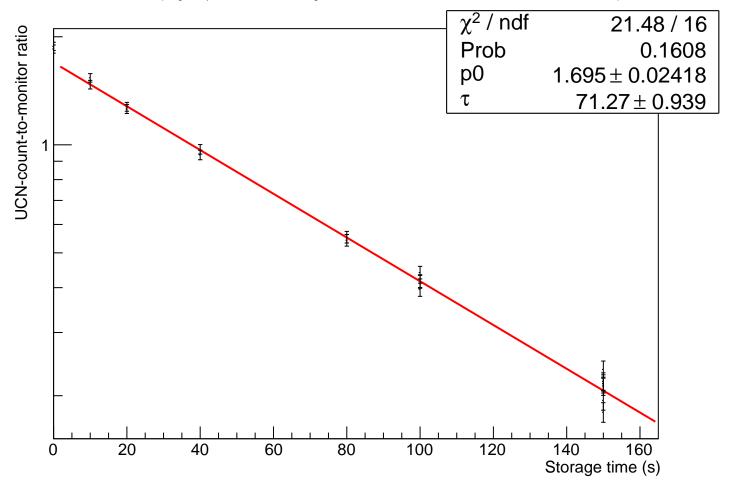
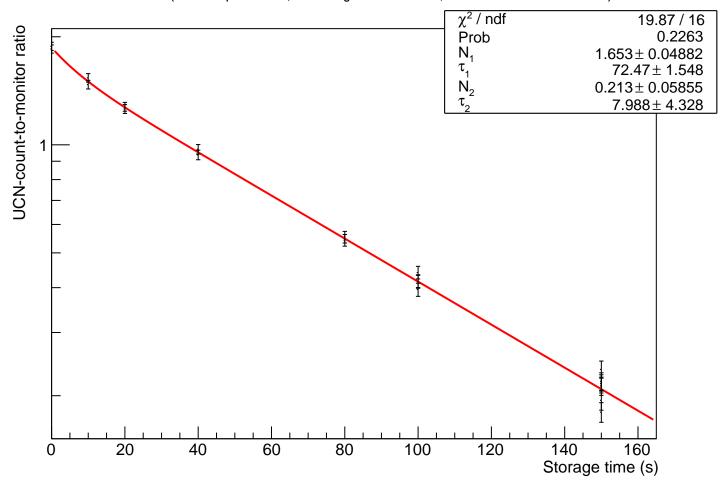
TCN18-126 (single exponential fit, with background subtracted, normalized to monitor detector)

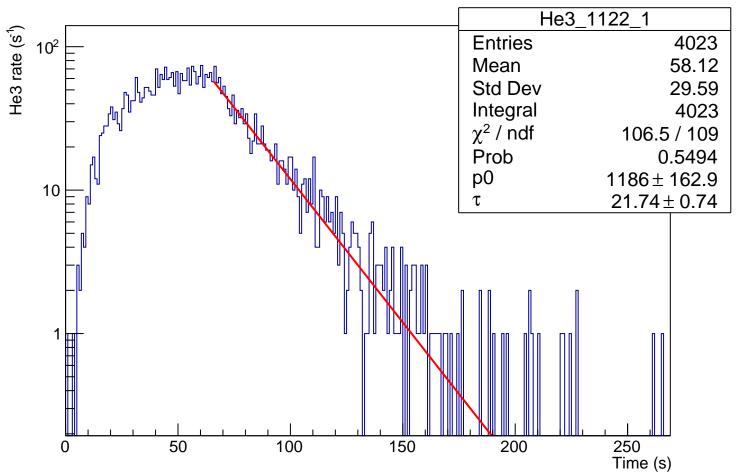


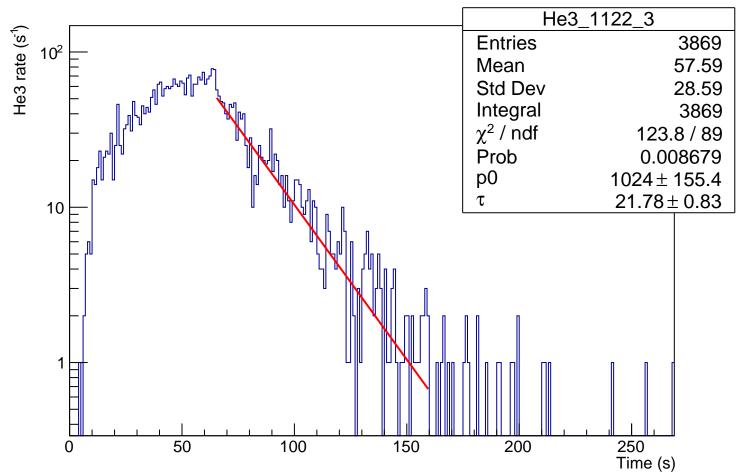


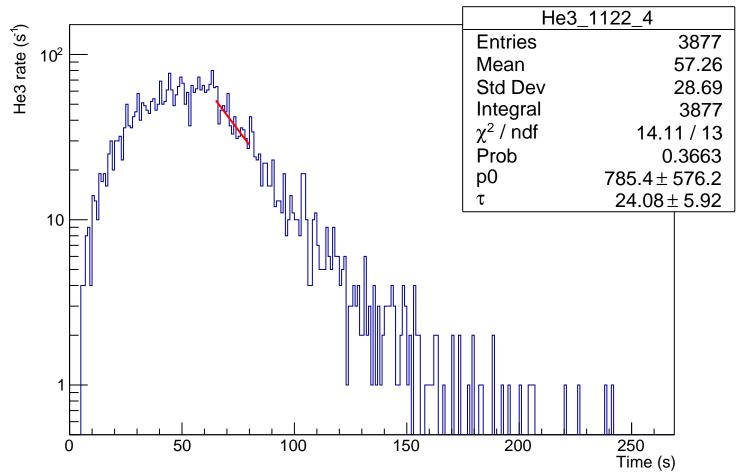
TCN18-126 (double exponential fit, with background subtracted, normalized to monitor detector)

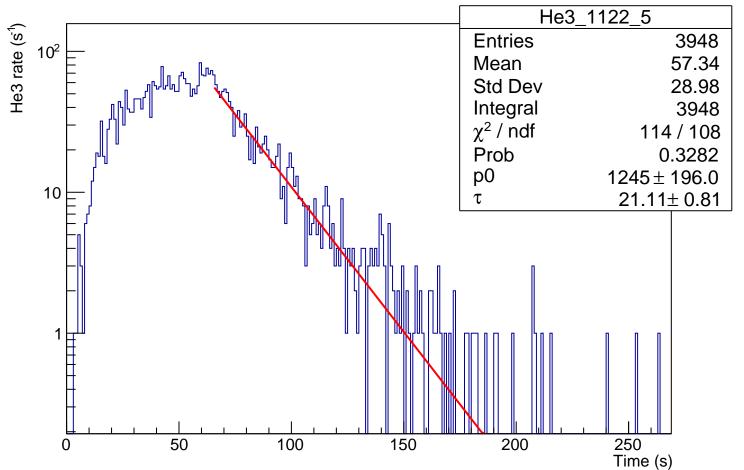


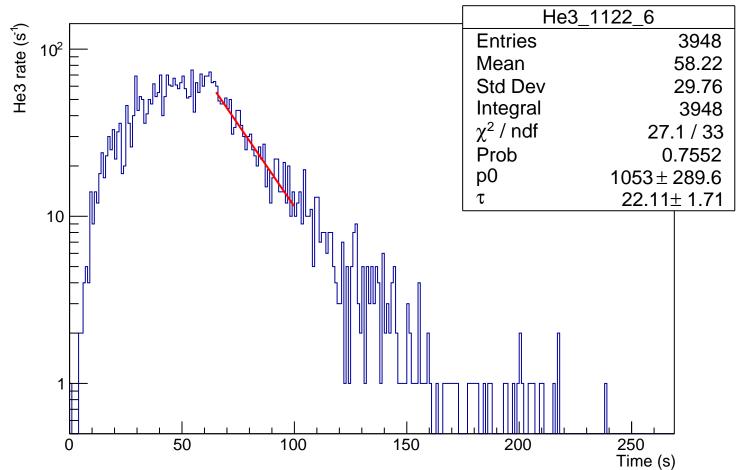
TCN18-126 (single exponential fit + background, unnormalized)  $\chi^2$  / ndf 49.15 / 17 **UCN** count **Prob** 5.724e-05 p0  $3927 \pm 34.13$  $62.62 \pm 1.808$ Background 292.6 ± 32.16 10<sup>3</sup> 20 40 60 80 100 120 140 160 Storage time (s)

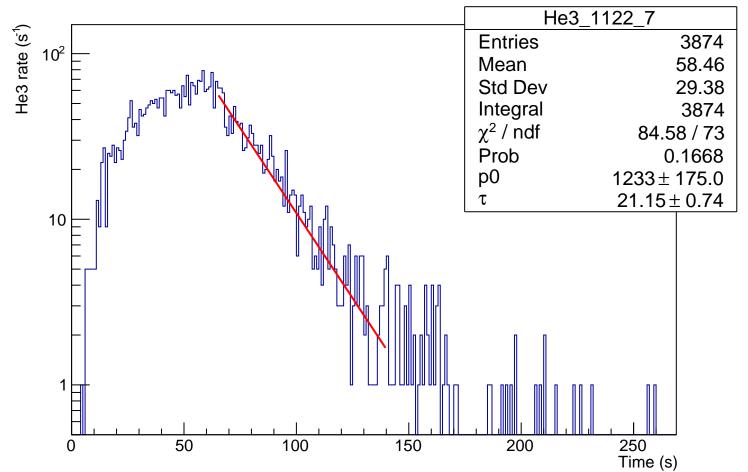


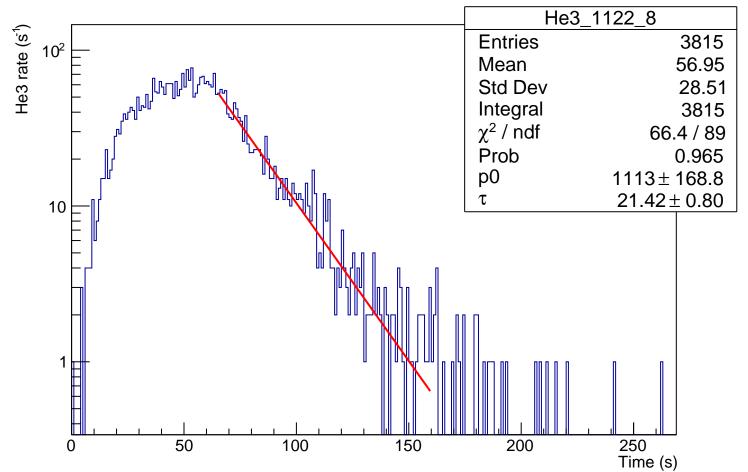


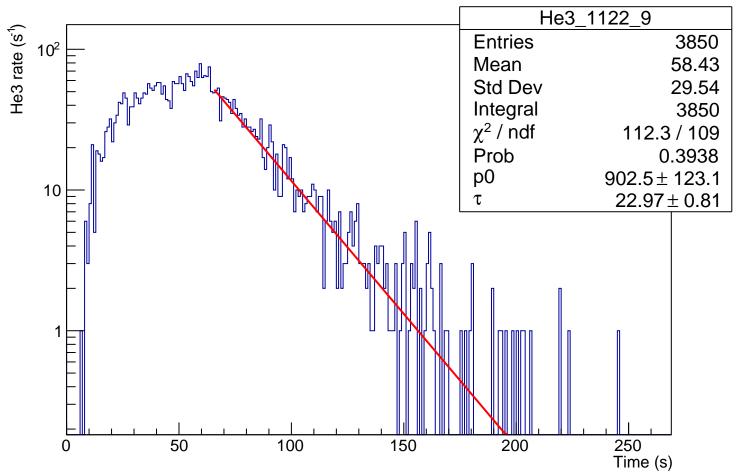


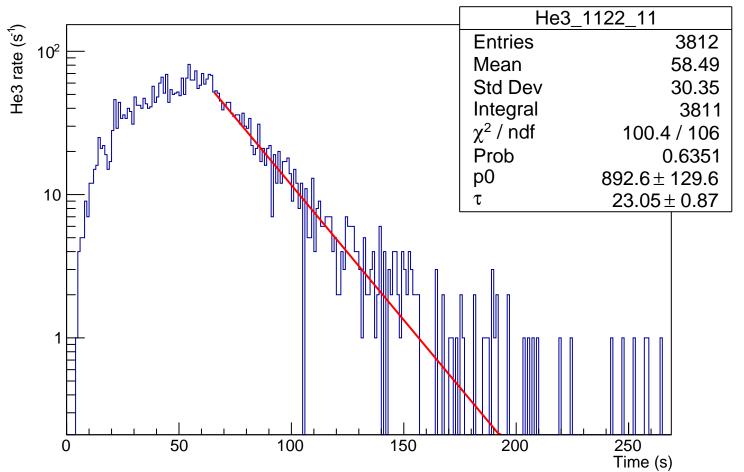


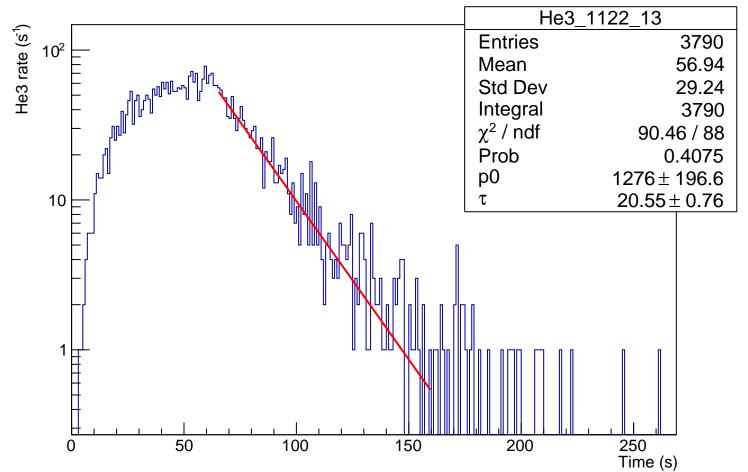


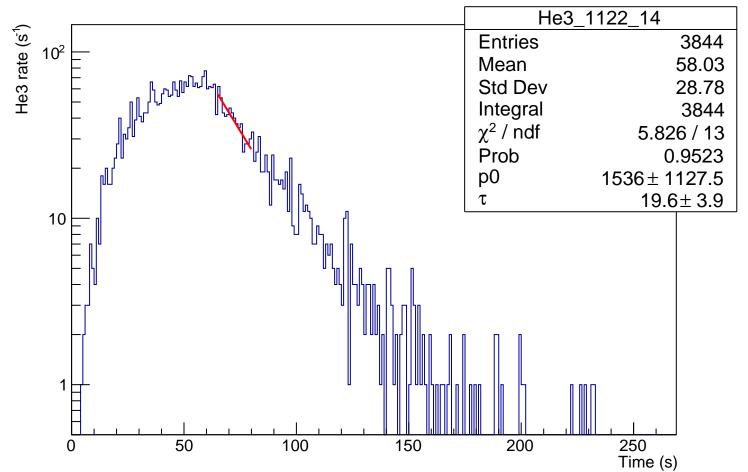


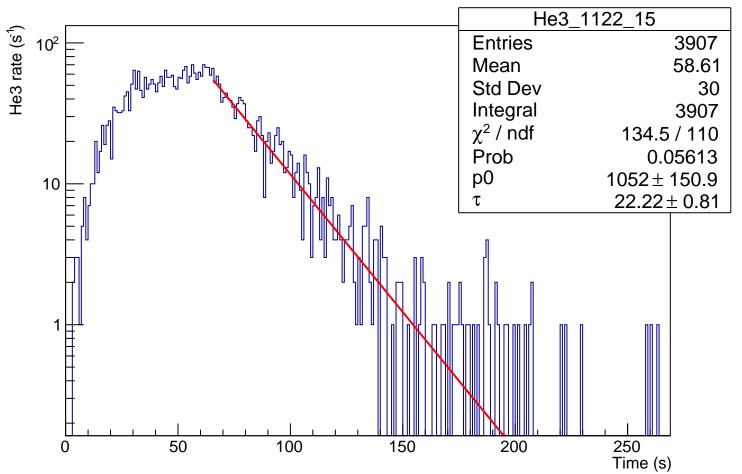


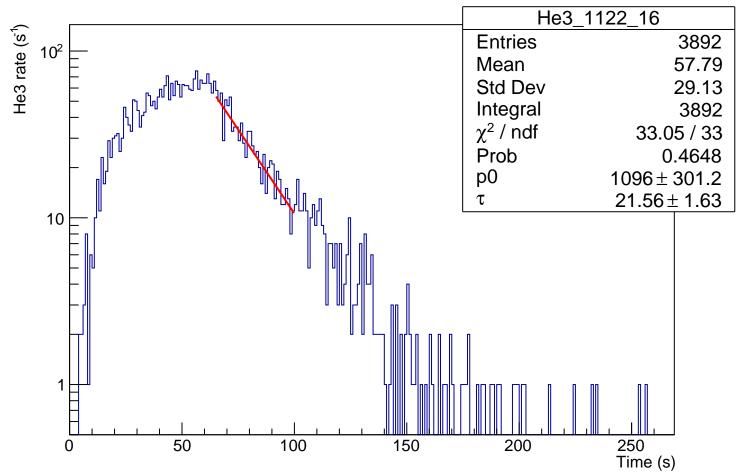


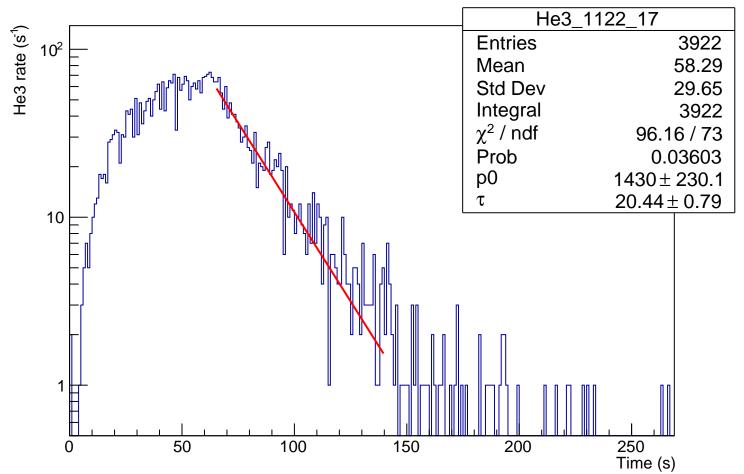


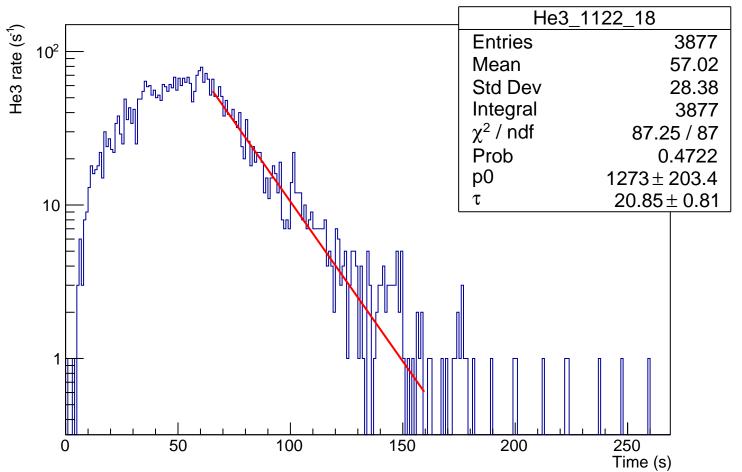


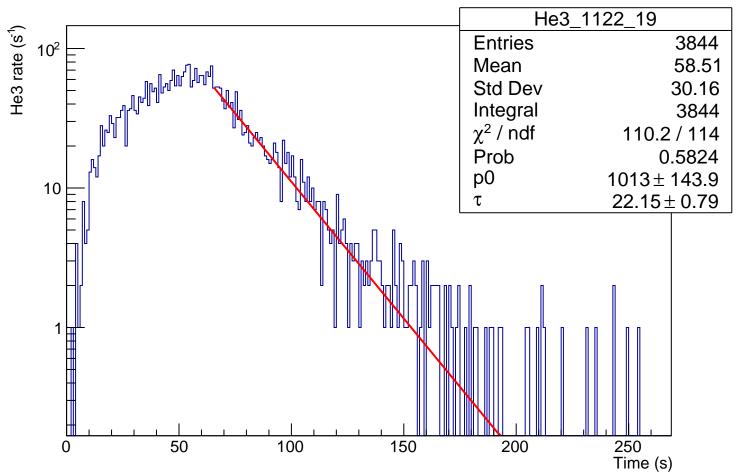












## Average lifetime from He3 data:

 $\tau$  = 21.5865999279 +/- 0.00253692867183 s