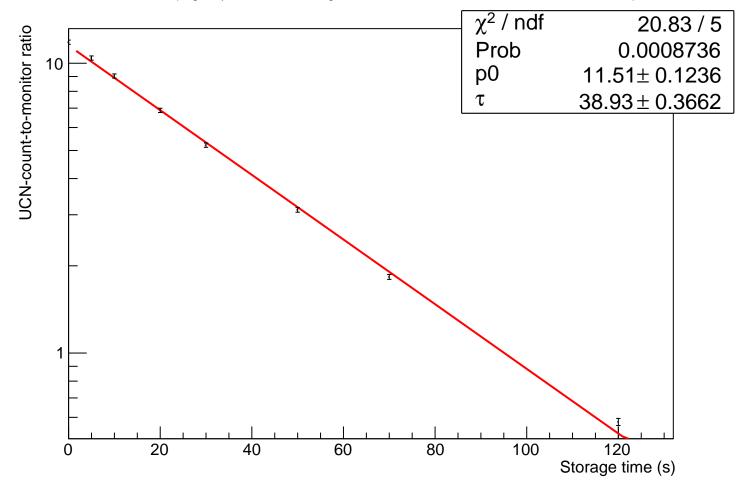
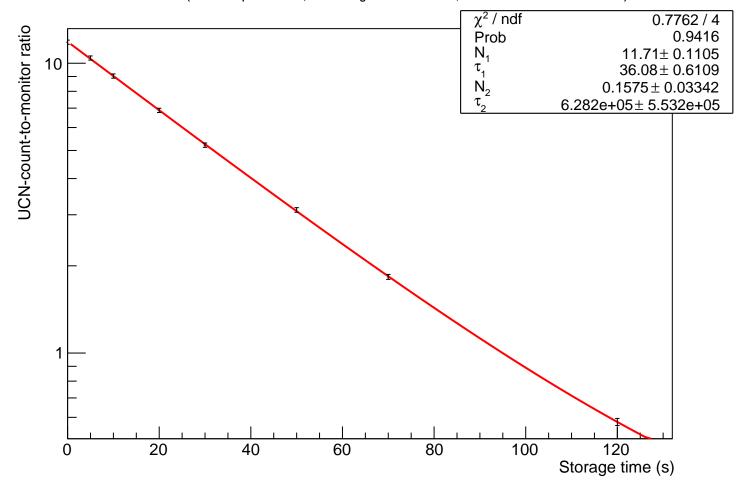
TCN18-042 (single exponential fit, with background subtracted, normalized to monitor detector)  $\chi^2$  / ndf 22.6 / 6 UCN-count-to-monitor ratio **Prob** 0.0009433 10 p0  $11.6 \pm 0.1052$  $38.73 \pm 0.3328$ 120 20 40 60 80 100

Storage time (s)

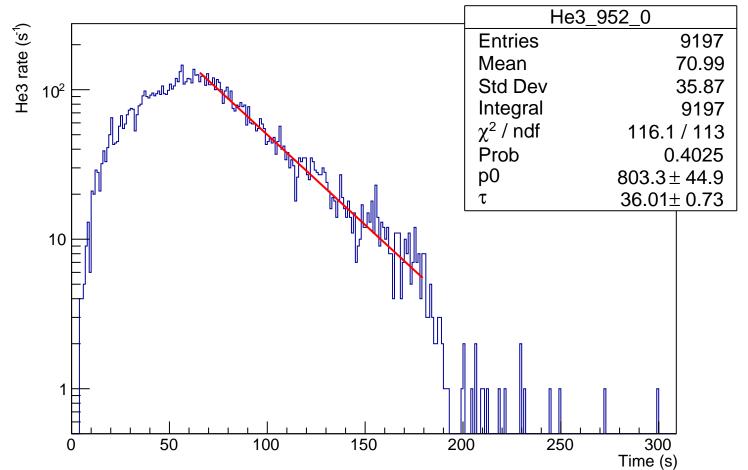


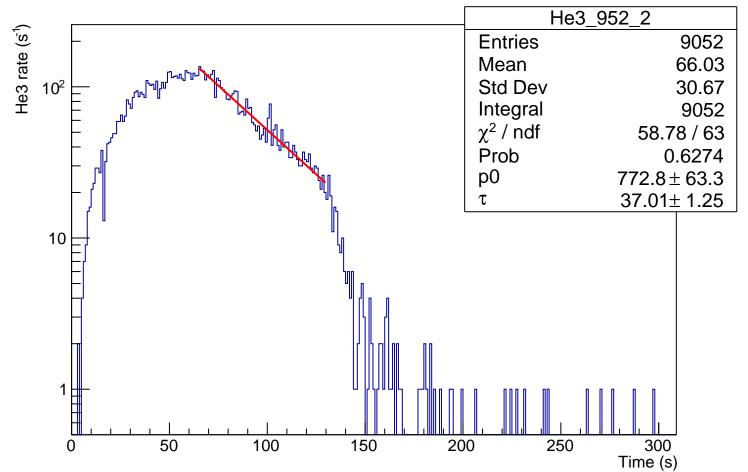
TCN18-042 (double exponential fit, with background subtracted, normalized to monitor detector)

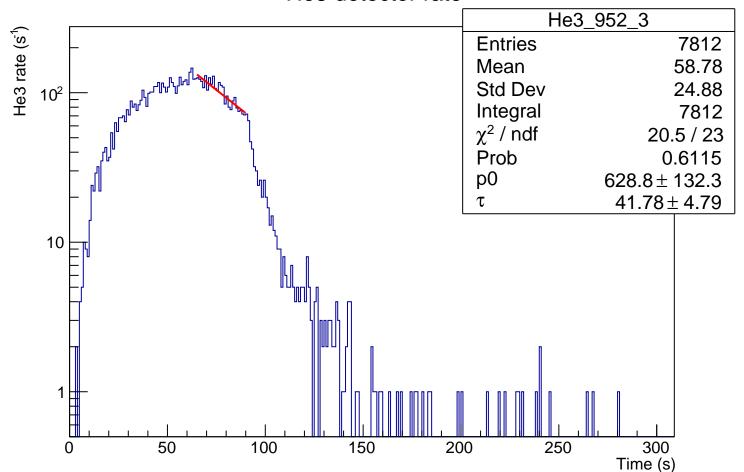


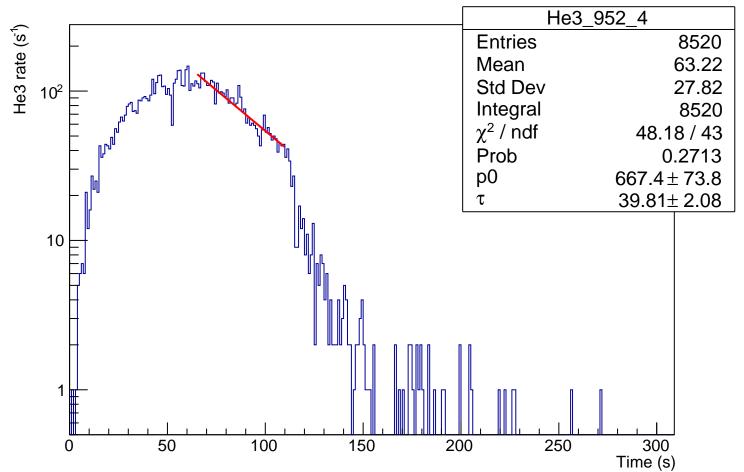
TCN18-042 (single exponential fit + background, unnormalized)  $\chi^2$  / ndf 10.56 / 5 UCN count Prob 0.06088 p0  $4.602e+04\pm139.9$  $37.36 \pm 0.3011$ Background  $648.6 \pm 83.44$  $10^{4}$ 120 20 40 60 80 100

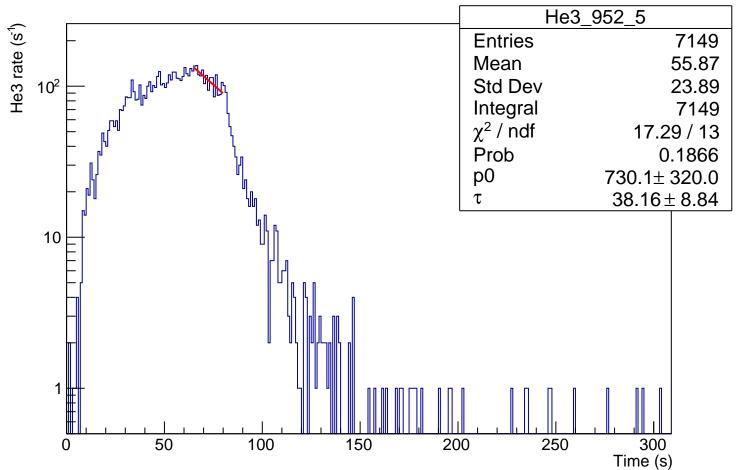
Storage time (s)











 $\tau$  = 36.6455786802 +/- 0.125395152081 s

**Average lifetime from He3 data:**