TCN18-050 (single exponential fit, with background subtracted, normalized to monitor detector)  $\chi^2$  / ndf 36.2 / 7 6.643e-06 **Prob** p0  $13.16 \pm 0.1268$  $27.93 \pm 0.2349$ 

80

100

120 Storage time (s)

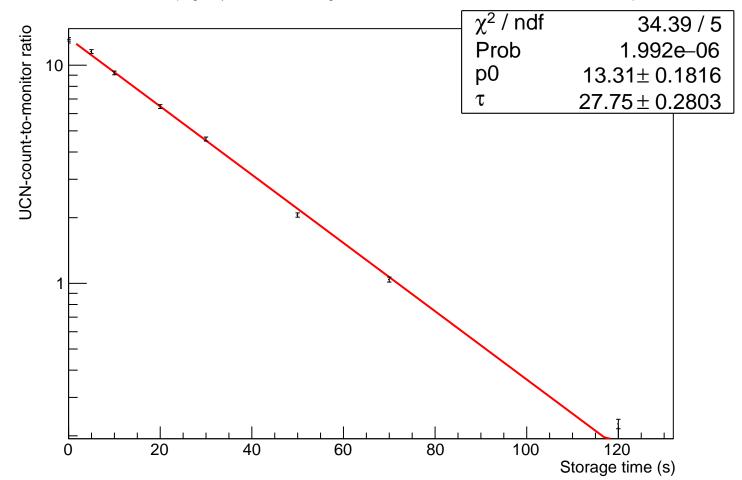
UCN-count-to-monitor ratio

10

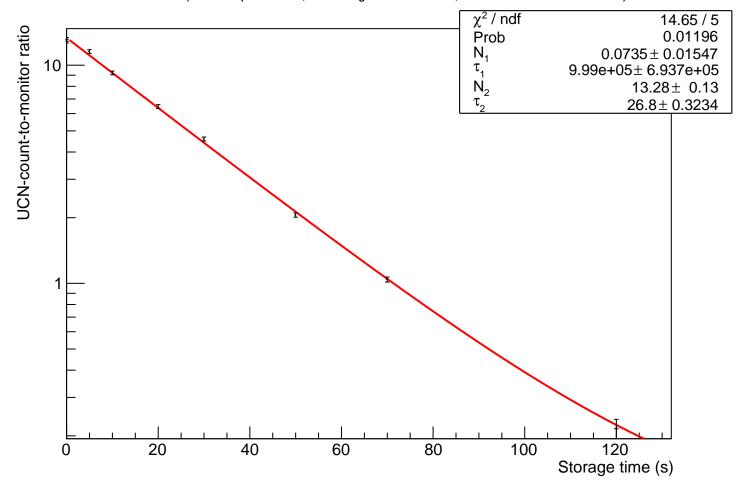
20

40

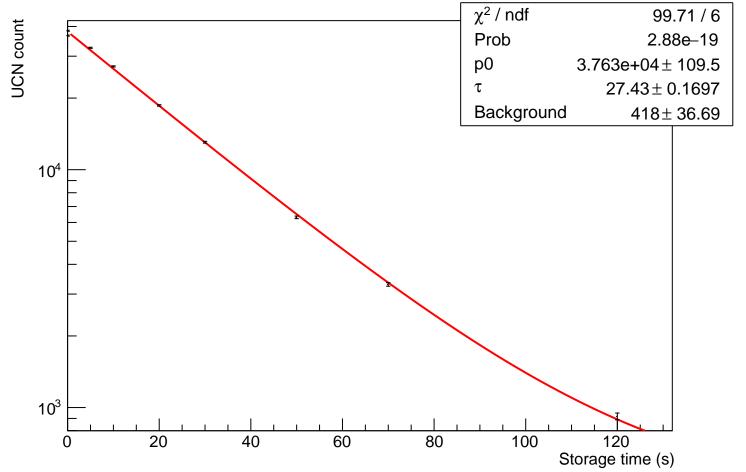
60

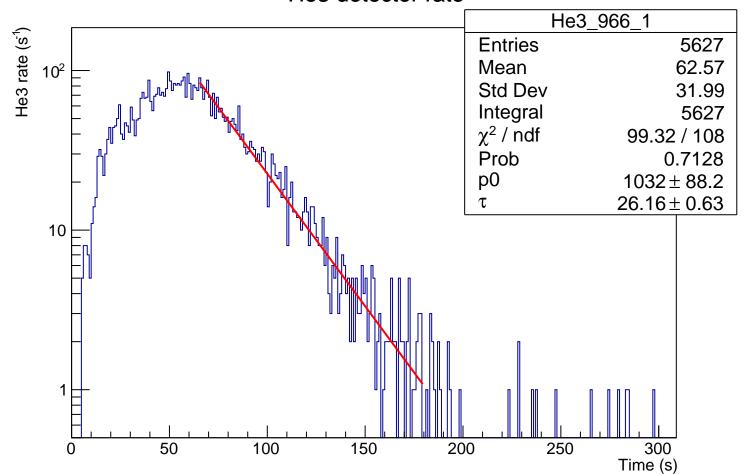


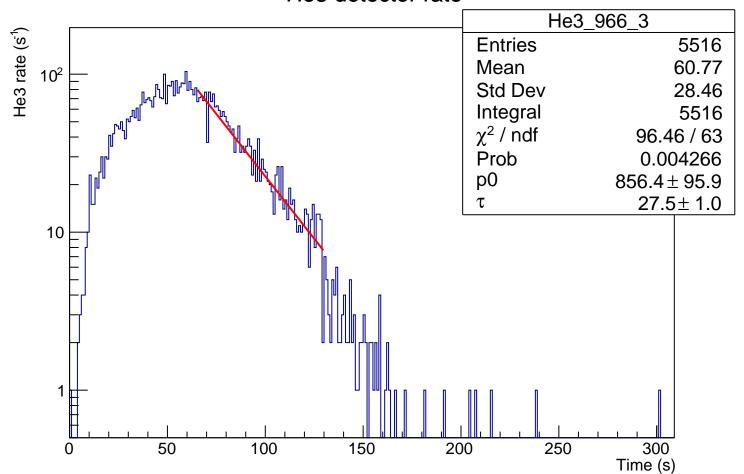
TCN18-050 (double exponential fit, with background subtracted, normalized to monitor detector)

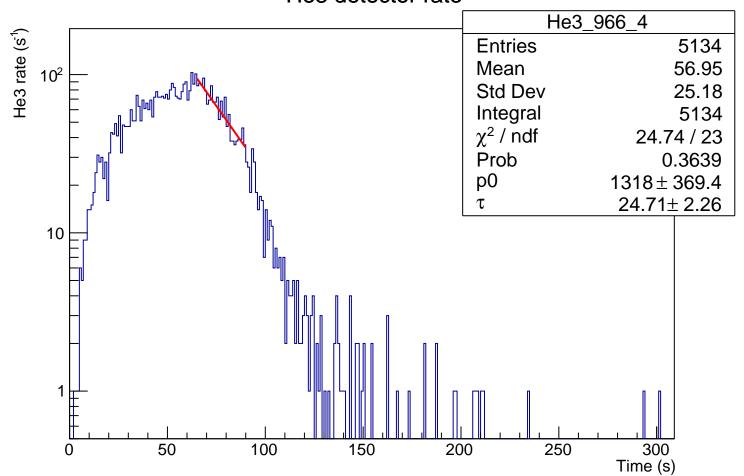


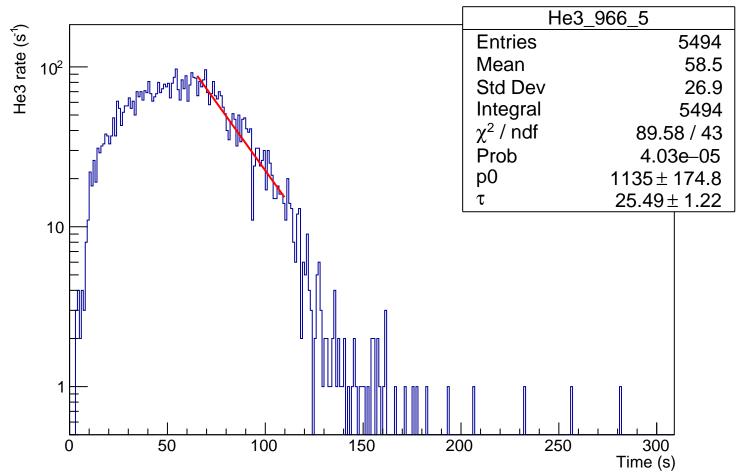
TCN18-050 (single exponential fit + background, unnormalized)











He3 detector rate He3\_966\_6 He3 rate (s¹) **Entries** 4958 Mean 55.1  $10^{2}$ Std Dev 24.58 Integral 4958  $\chi^2$  / ndf 10.63 / 13 Prob 0.6421 p0  $977.9 \pm 522.8$  $27.59\pm5.65$ 10 100 200 250 300 50 150

Time (s)

## Average lifetime from He3 data:

**G** 

 $\tau$  = 26.3263801392 +/- 0.050256266 s