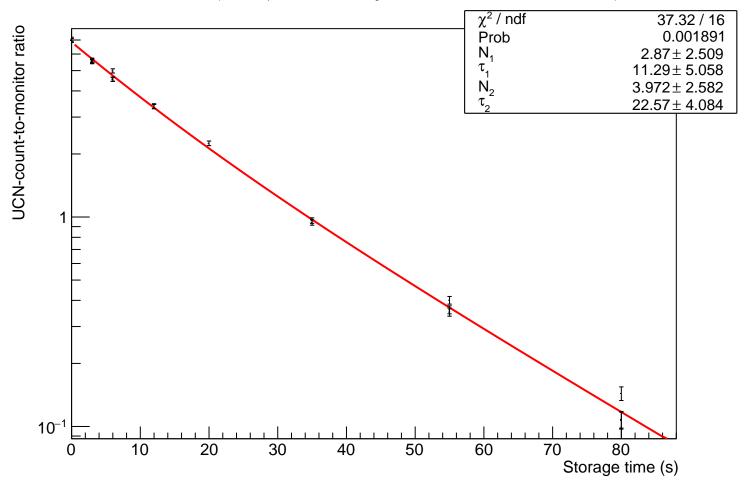
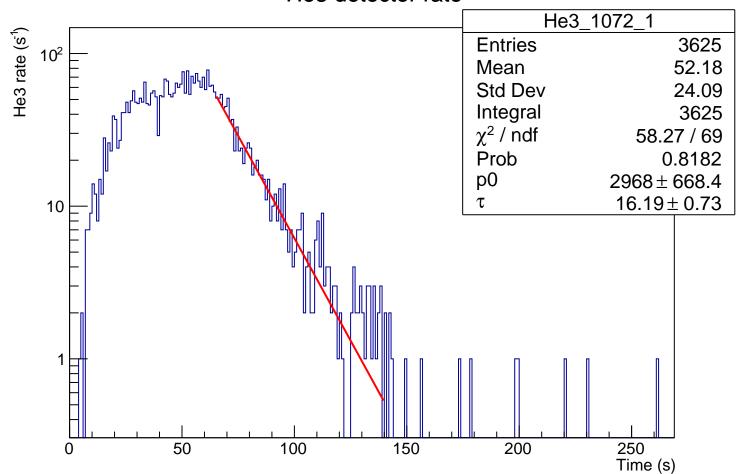
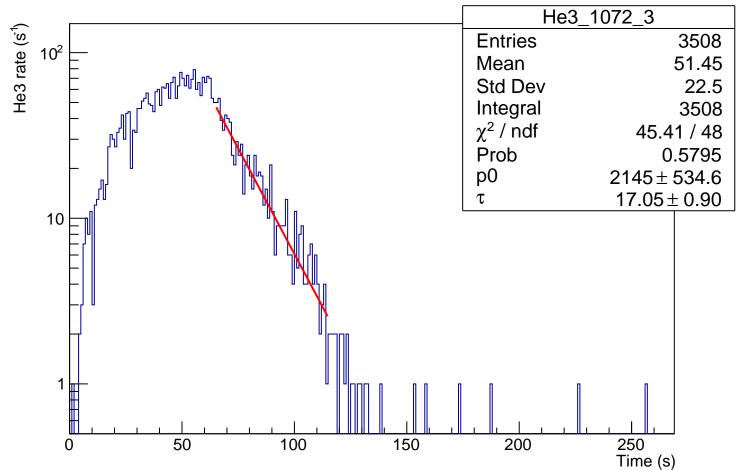


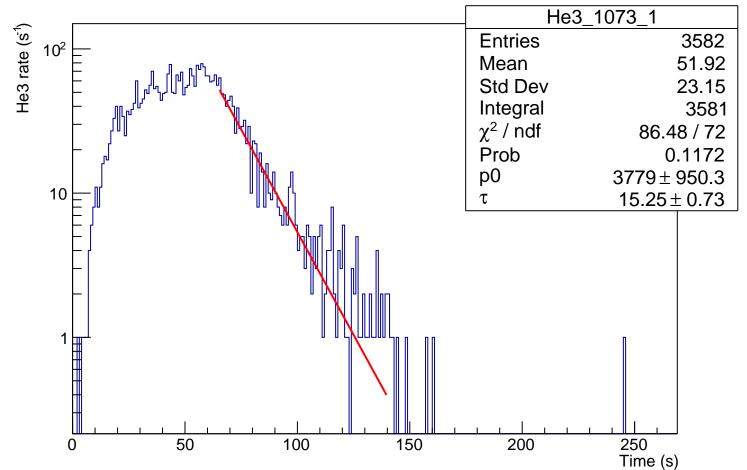
TCN18-068_0A (double exponential fit, with background subtracted, normalized to monitor detector)



TCN18-068_0A (single exponential fit + background, unnormalized) χ^2 / ndf 403.8 / 17 UCN count Prob 0 p0 $1.567e+04\pm51.62$ 10⁴ 16.59 ± 0.1372 Background 468.1± 15.2 10³ 10 20 30 40 50 60 70 80 Storage time (s)







He3 detector rate He3_1073_3 He3 rate (\bar{s}^1) **Entries** 3550 10^{2} Mean 50.61 Std Dev 23.41 Integral 3550 χ^2 / ndf 75.7 / 48 Prob 0.006562 p0 3655 ± 1037.4 15.19 ± 0.83 10 200 50 100 150 250

Time (s)

He3 detector rate He3_1073_5 He3 rate (\bar{s}^1) **Entries** 3530 10^{2} Mean 50.09 Std Dev 20.97 Integral 3529 χ^2 / ndf 35.96 / 28 Prob 0.1435 p0 2530 ± 921.1 16.58 ± 1.31 10

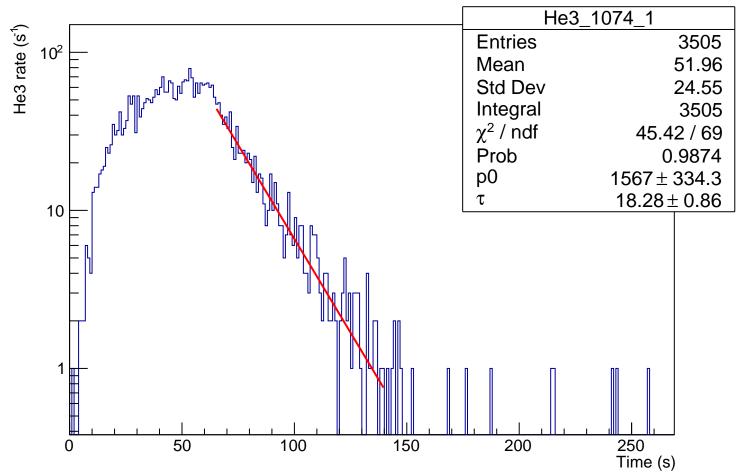
150

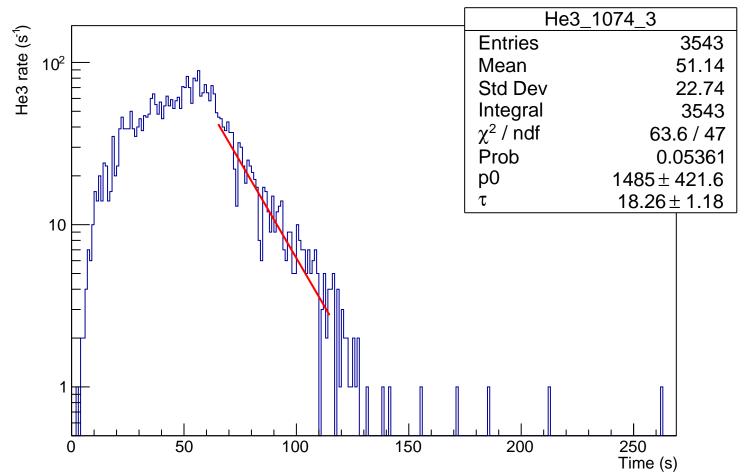
200

250 Time (s)

50

100





He3 detector rate He3_1074_5 He3 rate (\bar{s}^1) **Entries** 3414 10^{2} Mean 49.79 Std Dev 20.48 Integral 3414 χ^2 / ndf 23.83 / 28 Prob 0.6907 p0 3216 ± 1324.9 15.61± 1.32 10 50 100 150 200 250

Time (s)

He3 detector rate He3_1074_7 He3 rate (\bar{s}^1) **Entries** 3294 10^{2} Mean 48.78 Std Dev 20.53 Integral 3294 χ^2 / ndf 20.07 / 13 Prob 0.09339 p0 2438 ± 2091.3 16.6 ± 3.3 10 100 250 50 150 200

Time (s)

τ = 16.4022452639 +/- 0.0104744082982 s

Average lifetime from He3 data: