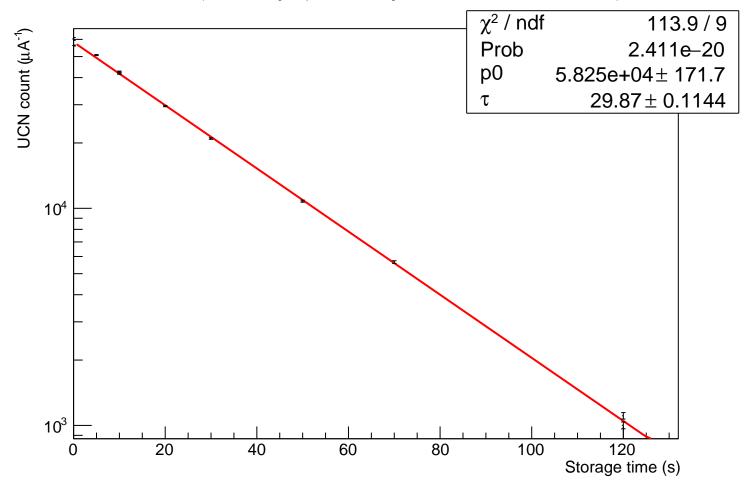TCN18-170 (li6 detector, single exponential fit, background subtracted, normalized to beam current)

χ^2 / ndf	113.9 / 9
Prob	2.411e−20
p0	5.825e+04$\pm$ 171.7
τ	29.87$\pm$ 0.1144

UCN count (μA^{-1})

Storage time (s)

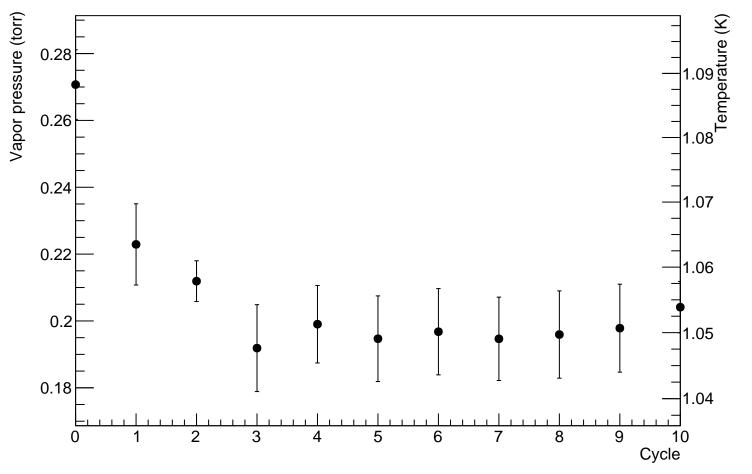TCN18-170 (he3 detector, single exponential fit, background subtracted, normalized to beam current)

χ^2 / ndf	11.46 / 9
Prob	0.2453
p0	920.6 ± 16.14
τ	30.56 ± 0.8116

60.0s irradiation

p0 = 2548 ± 23
p1 = 37.11 ± 0.3
p2 = 0.007298 ± 0
p3 = 0.3216 ± 0
p4 = 0.1154 ± 0
p5 = 40.33 ± 0.68
p6 = 1.308 ± 0
χ^2/ndf = 1.53
$N(T, t_s, t_i) = p0|p5\ \tau\ \dfrac{1}{1 + p4\ T^7}\ (1 - \exp(-\dfrac{t_i\ p6}{\tau}))\ \exp(-\dfrac{t_s}{\tau})$

UCN count (μA^{-1})

Storage time (s)

Graph

TCN18-170

TCN18-170_ch	
Entries	324236
Mean	4.404
Std Dev	3.008
Integral	3.242e+05

Count

Channel