TCN18-268_50A (single exponential fit, with background subtracted, normalized to monitor detector)

χ^2 / ndf	9.479 / 5
Prob	0.09143
p0	3.207 ± 0.05541
τ	10.95 ± 0.2165

TCN18-268_50A (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)

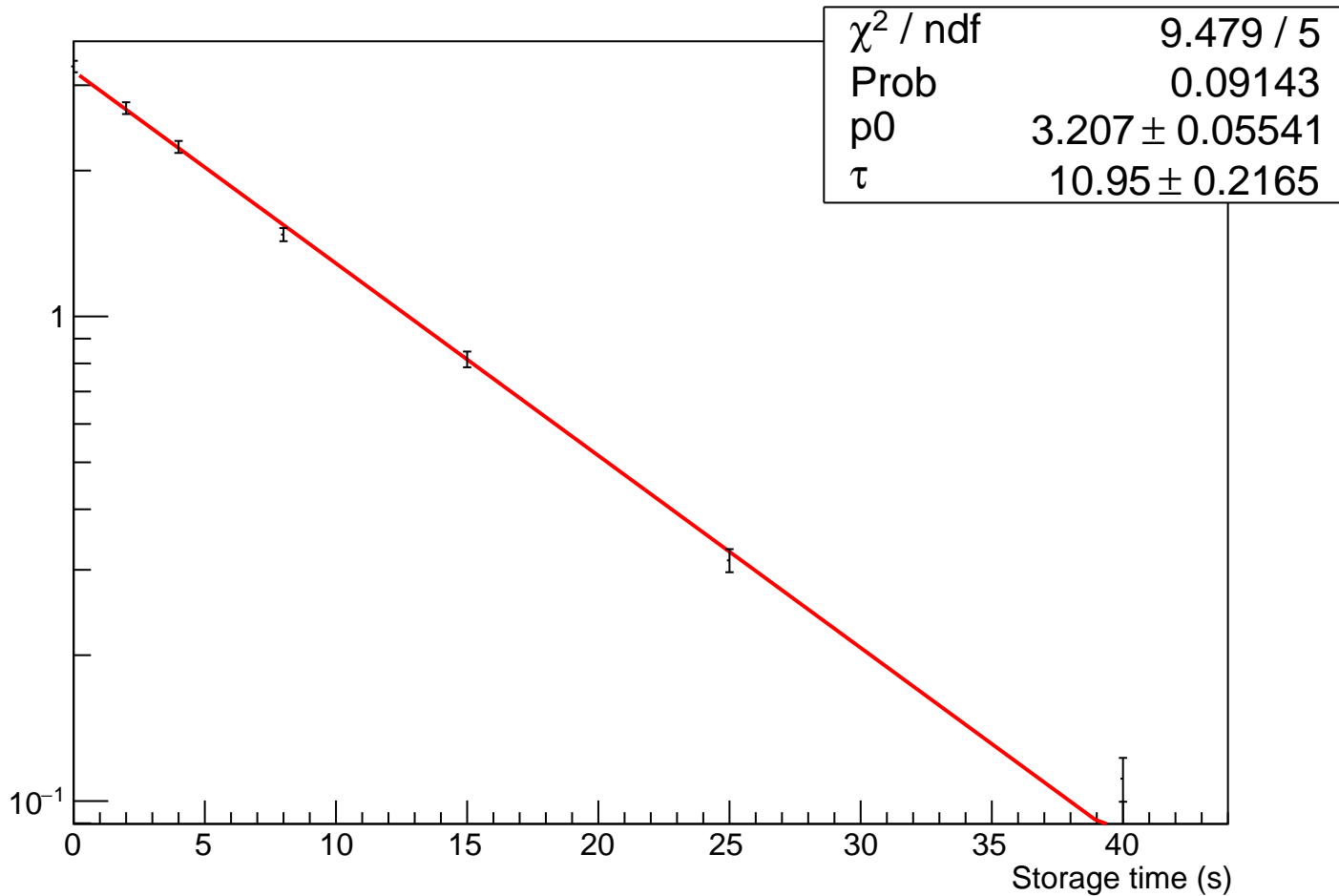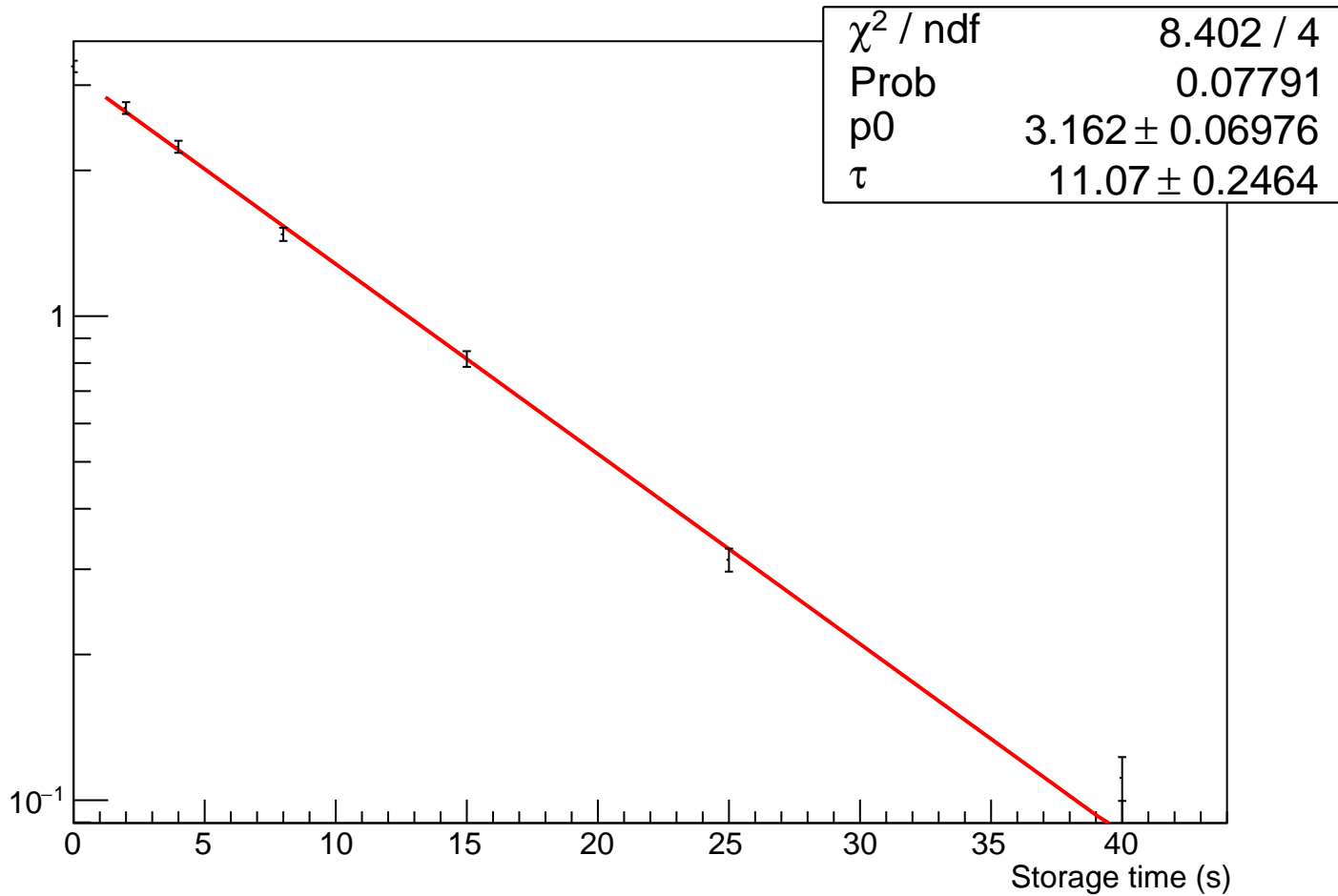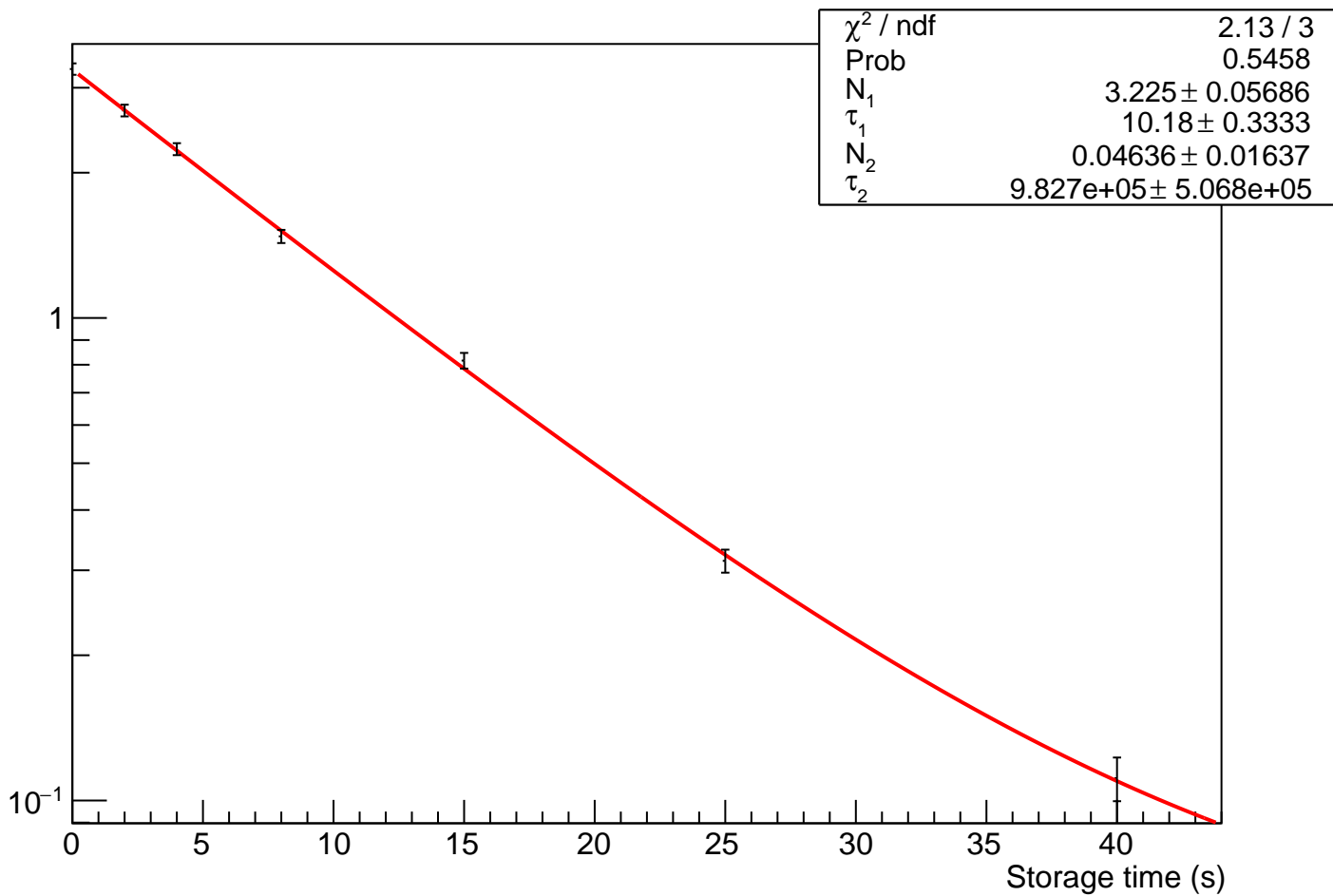| χ^2 / ndf	8.402 / 4
Prob	0.07791
p0	3.162 ± 0.06976
τ	11.07 ± 0.2464

UCN-count-to-monitor ratio

Storage time (s)

TCN18-268_50A (double exponential fit, with background subtracted, normalized to monitor detector)

χ^2 / ndf	2.13 / 3
Prob	0.5458
N_1	3.225 ± 0.05686
τ_1	10.18 ± 0.3333
N_2	0.04636 ± 0.01637
τ_2	$9.827e{+}05 \pm 5.068e{+}05$

UCN-count-to-monitor ratio

Storage time (s)

TCN18-268_50A (single exponential fit + background, unnormalized)

χ^2 / ndf	5.285 / 4
Prob	0.2593
p0	5731 ± 54.56
τ	10.04 ± 0.2244
Background	211 ± 23.01

He3 detector rate

He3_1093_1	
Entries	2276
Mean	45.2
Std Dev	18.8
Integral	2276
χ^2 / ndf	24.1 / 31
Prob	0.8063
p0	2.567e+04$\pm$ 1.802e+04
τ	9.512$\pm$ 0.863

He3 detector rate

He3_1093_3	
Entries	2312
Mean	45.5
Std Dev	18.69
Integral	2312
χ^2 / ndf	20.93 / 18
Prob	0.2828
p0	$3.399\text{e}{+}04 \pm 3.217\text{e}{+}04$
τ	9.294 ± 1.144
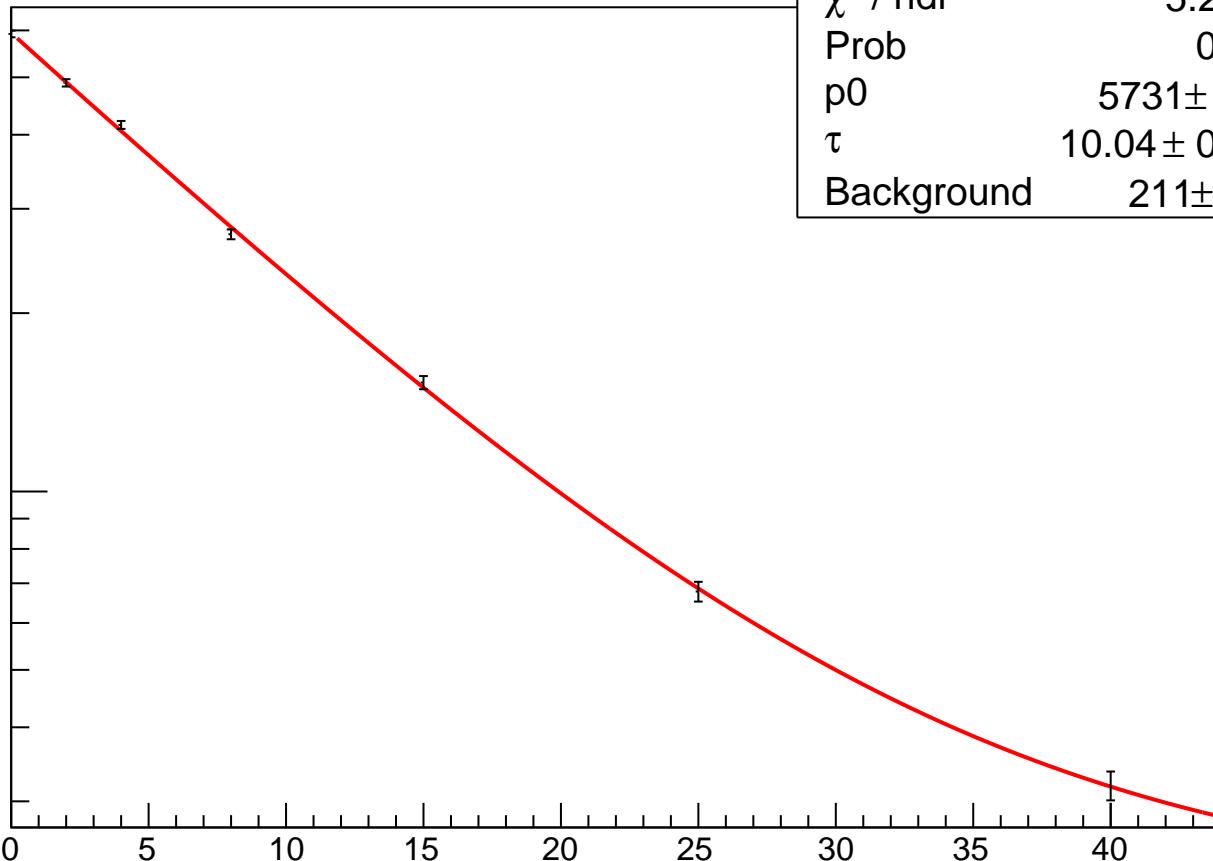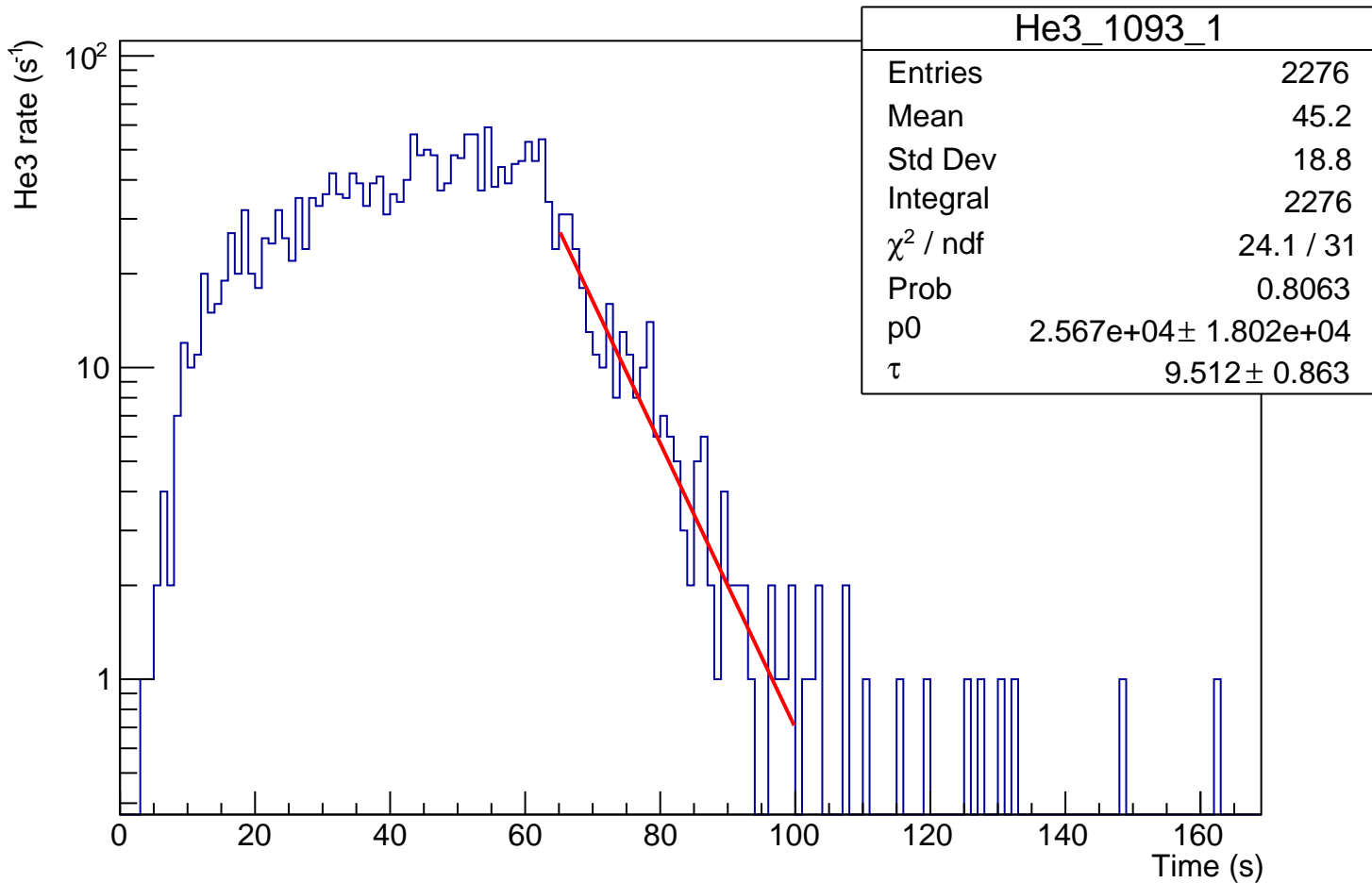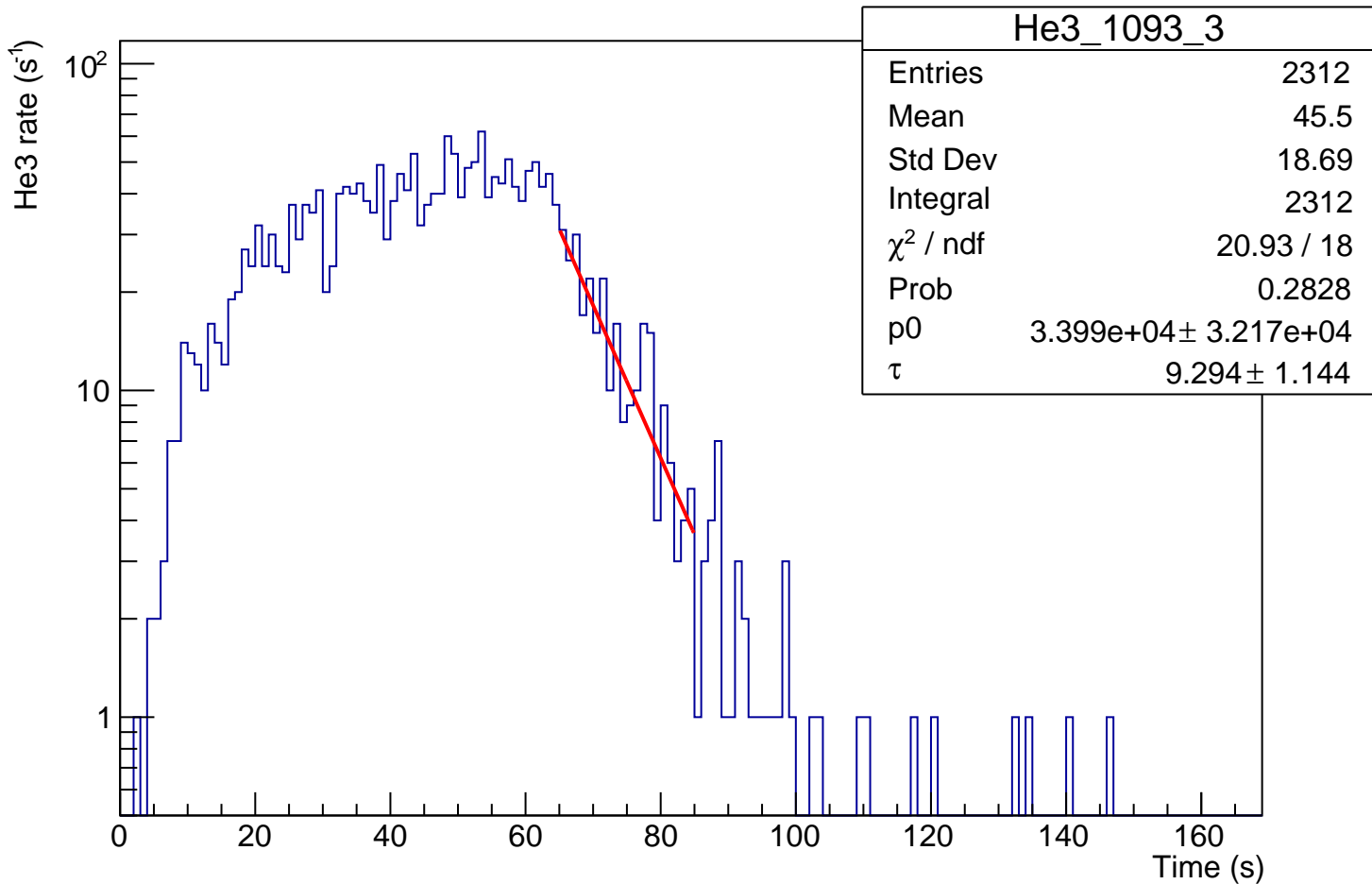
Average lifetime from He3 data:

τ = **9.43301368488 +/- 0.225178778631 s**