TCN18-117 (single exponential fit, with background subtracted, normalized to monitor detector)

χ^2 / ndf	17.74 / 13
Prob	0.1678
p0	3.483 ± 0.04643
τ	7.496 ± 0.1056

UCN-count-to-monitor ratio

Storage time (s)

TCN18-117 (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)

χ^2 / ndf	8.924 / 11
Prob	0.6289
p0	3.419 ± 0.05885
τ	7.597 ± 0.1223

UCN-count-to-monitor ratio

Storage time (s)
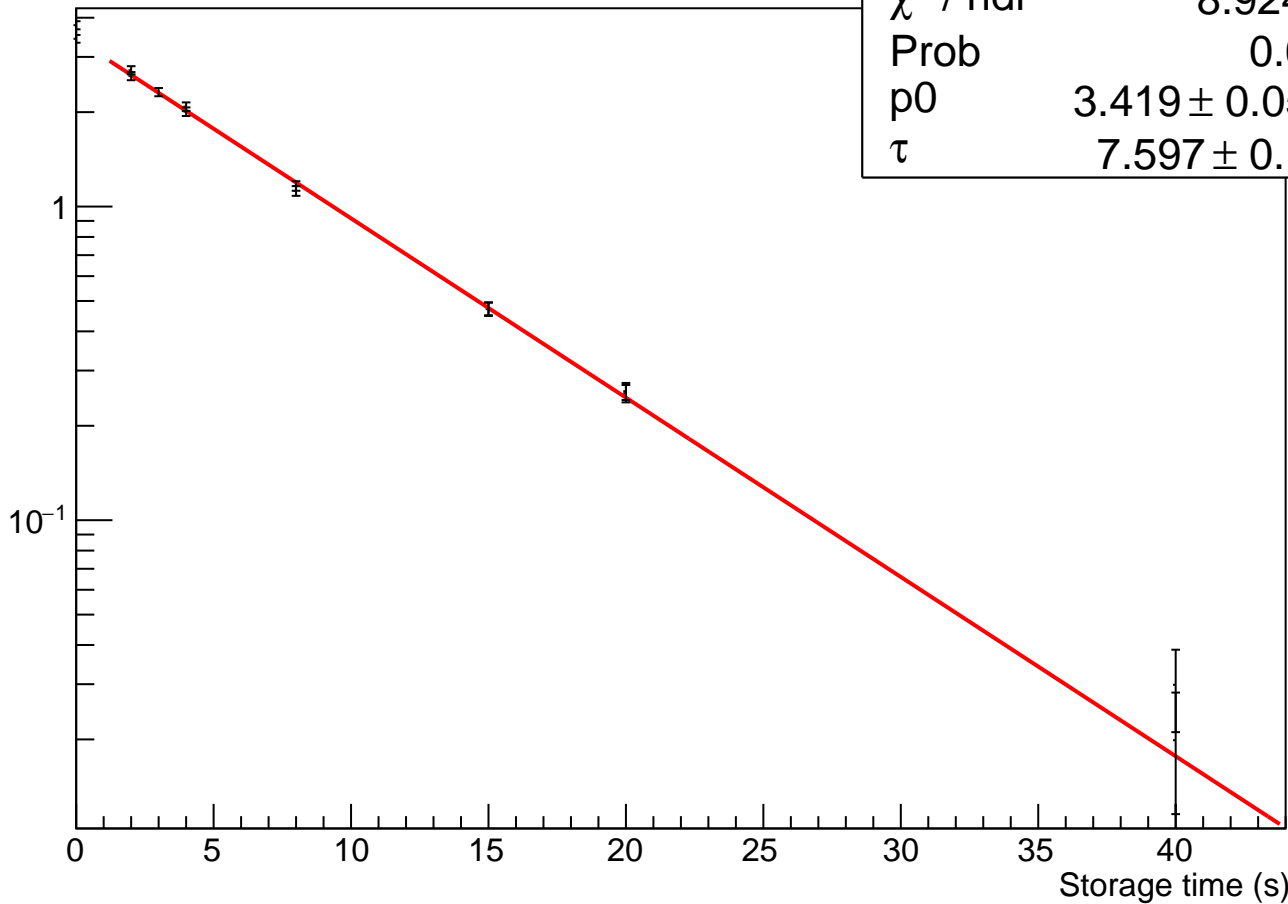
TCN18-117 (double exponential fit, with background subtracted, normalized to monitor detector)

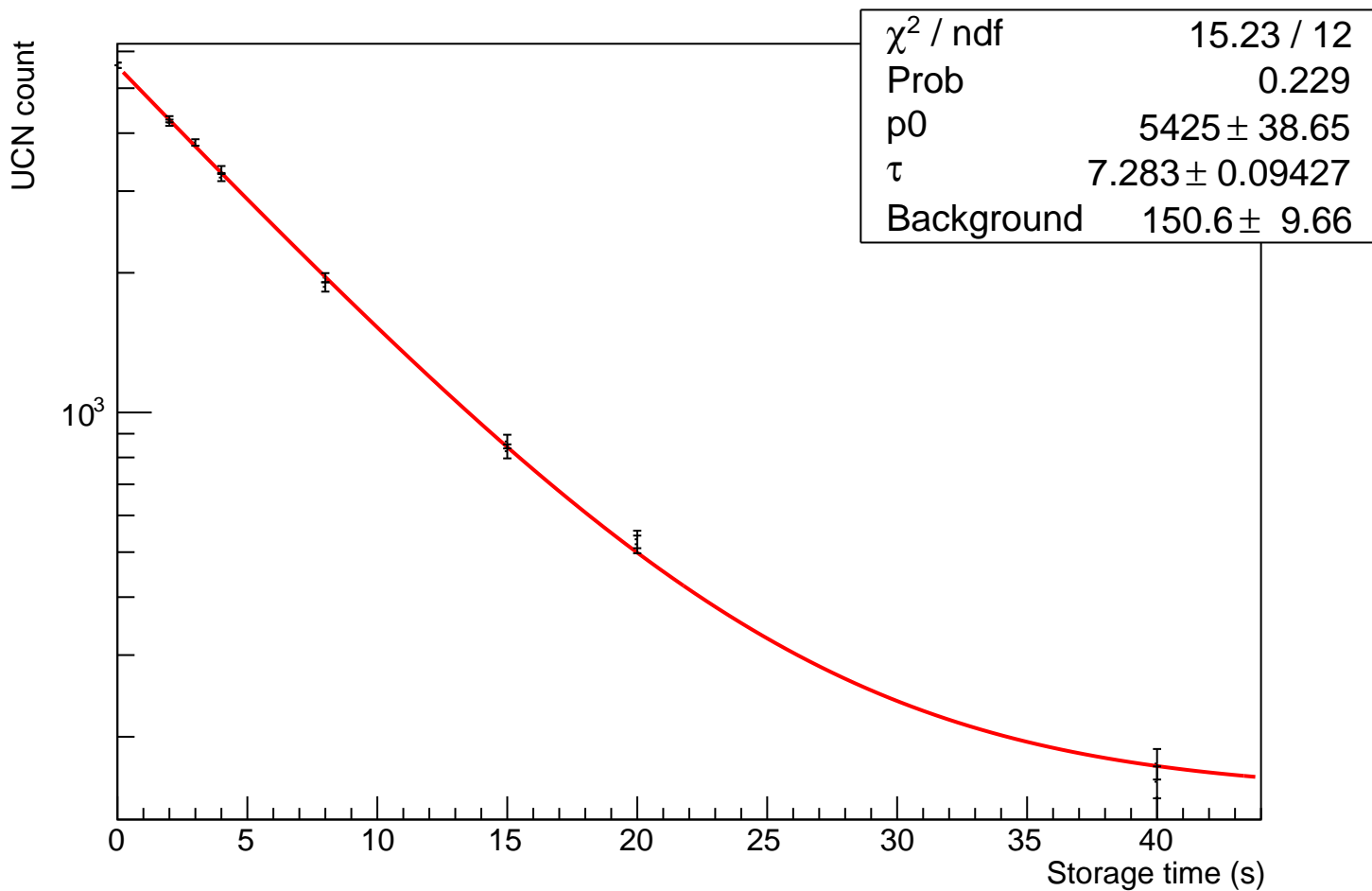|	
χ^2 / ndf	9.896 / 11
Prob	0.5398
N_1	2.101 ± 1.249
τ_1	9.02 ± 1.42
N_2	1.487 ± 1.242
τ_2	4.935 ± 1.651

UCN-count-to-monitor ratio

Storage time (s)
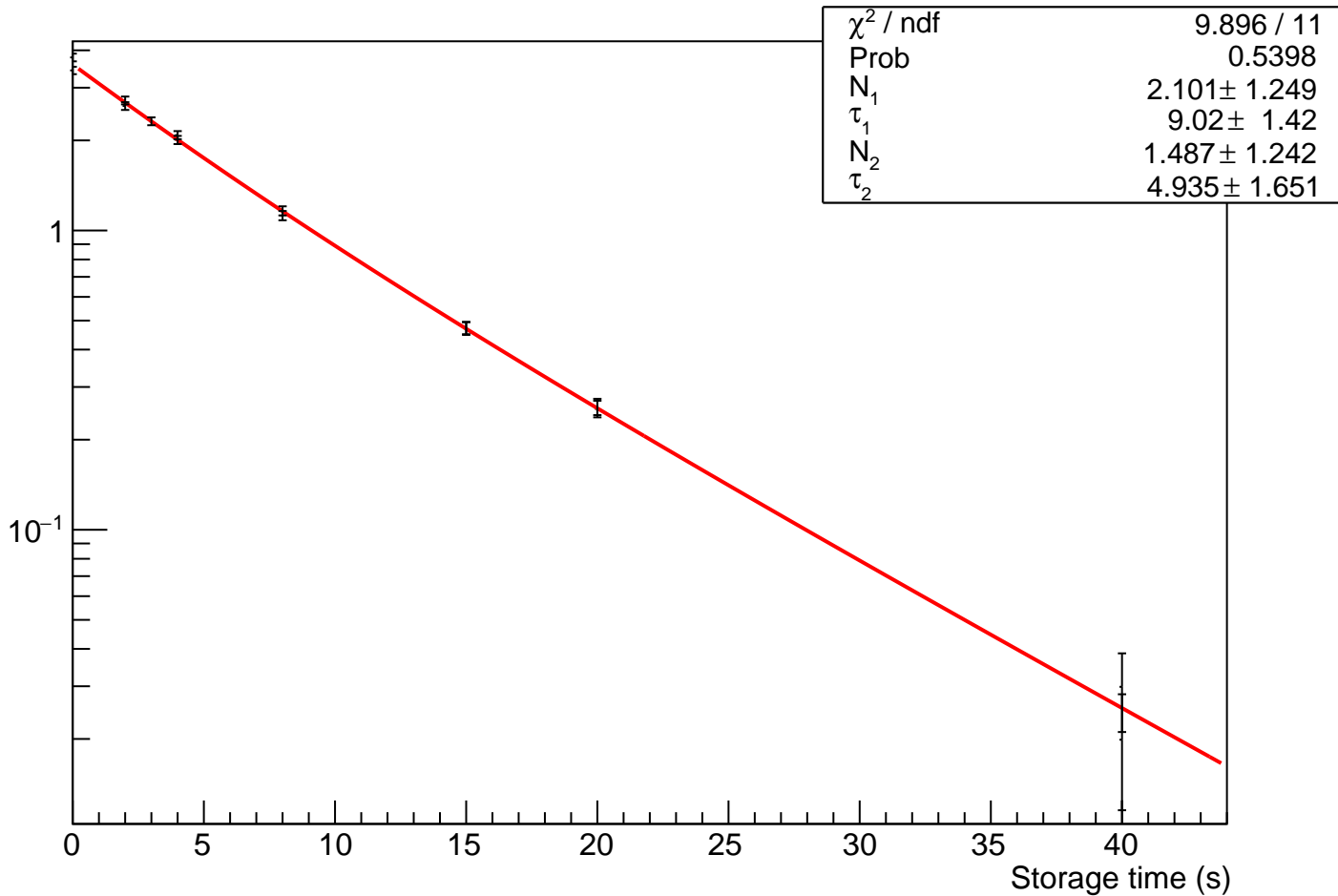
TCN18-117 (single exponential fit + background, unnormalized)

χ^2 / ndf	15.23 / 12
Prob	0.229
p0	5425 ± 38.65
τ	7.283 ± 0.09427
Background	150.6 ± 9.66

He3 detector rate

He3_1127_1	
Entries	1937
Mean	42.95
Std Dev	20.52
Integral	1937
χ^2 / ndf	5.445 / 13
Prob	0.9641
p0	1e+06$\pm$ 1.0e+06
τ	6.212$\pm$ 0.043
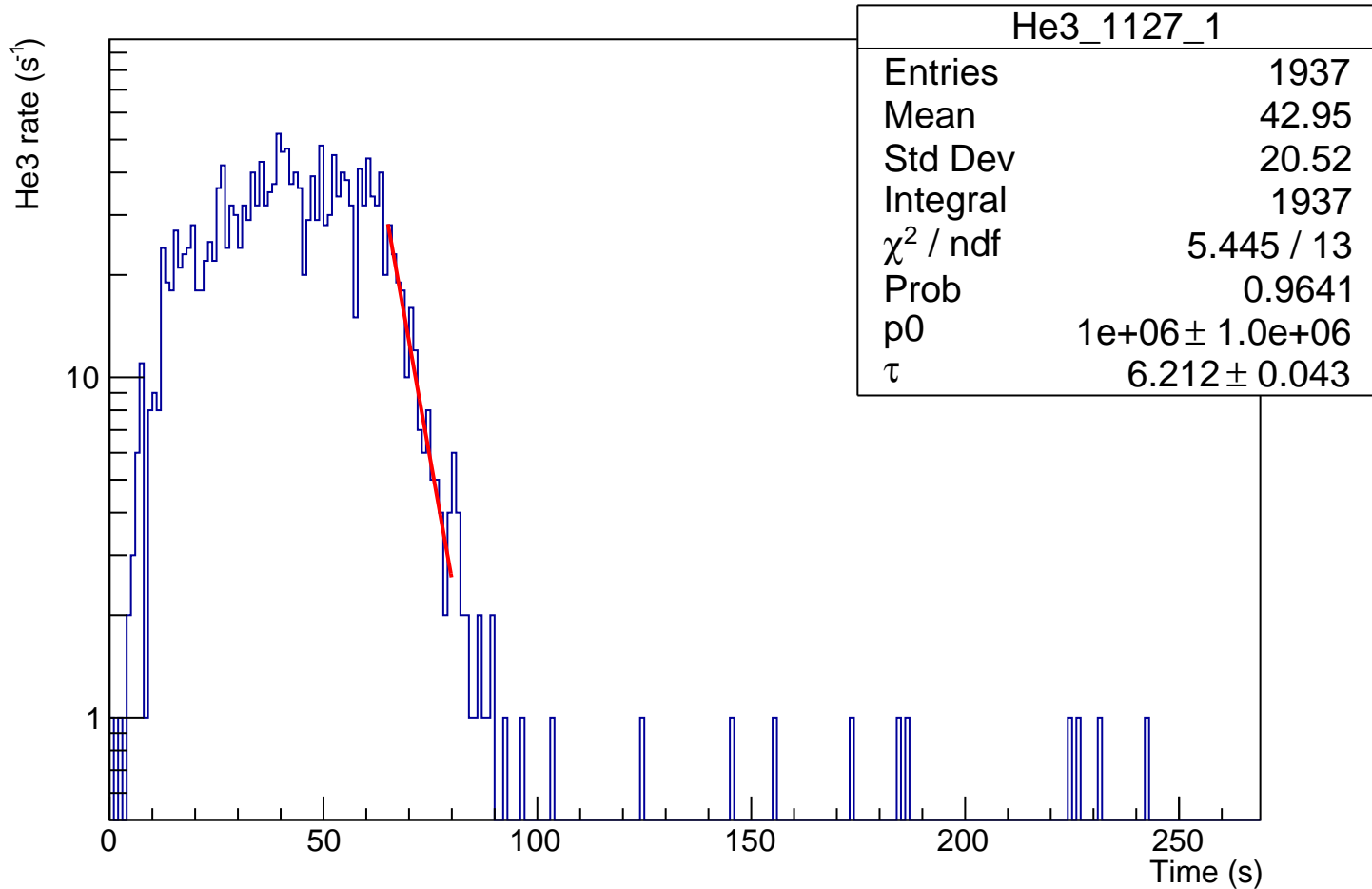
He3 rate (s^{-1})

Time (s)

He3 detector rate

He3_1127_7	
Entries	1910
Mean	43.79
Std Dev	19.81
Integral	1910
χ^2 / ndf	31.39 / 26
Prob	0.2141
p0	6.878e+05$\pm$ 8.437e+05
τ	6.418$\pm$ 0.746

He3 rate (s^{-1})

Time (s)
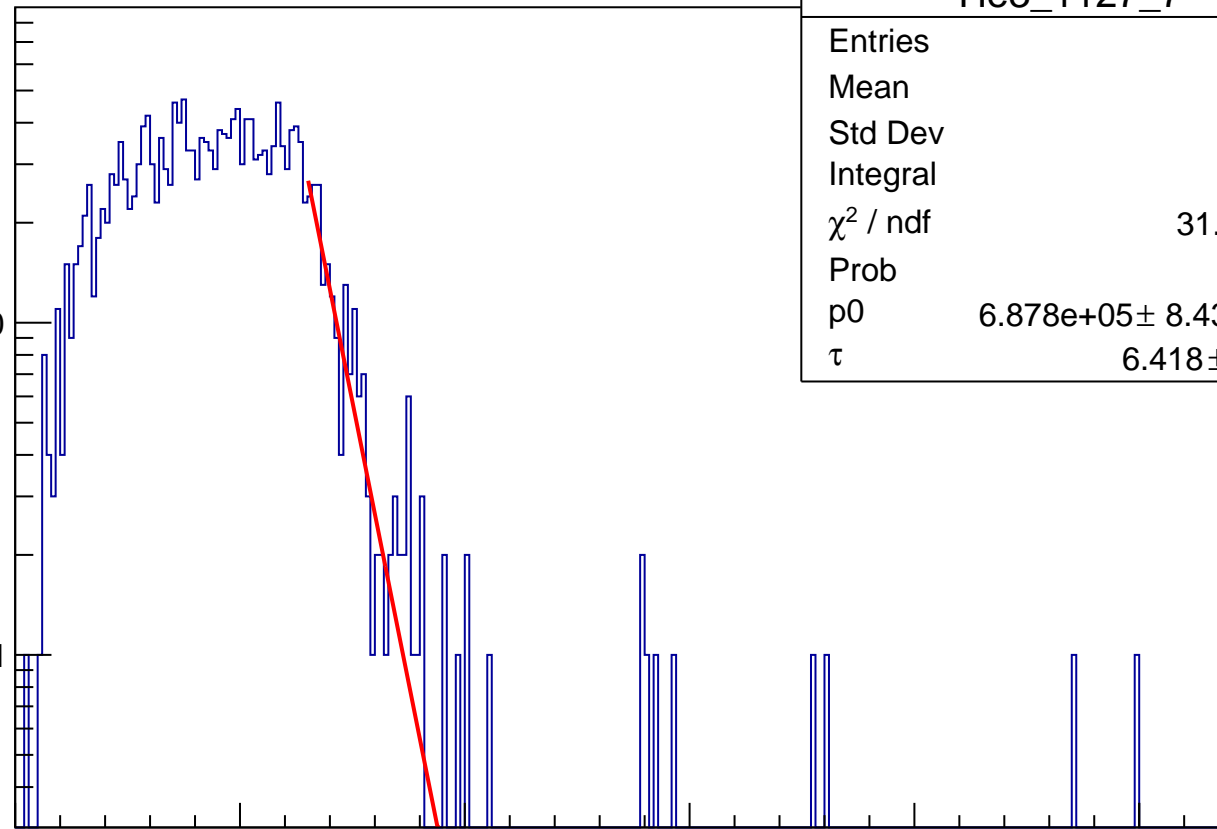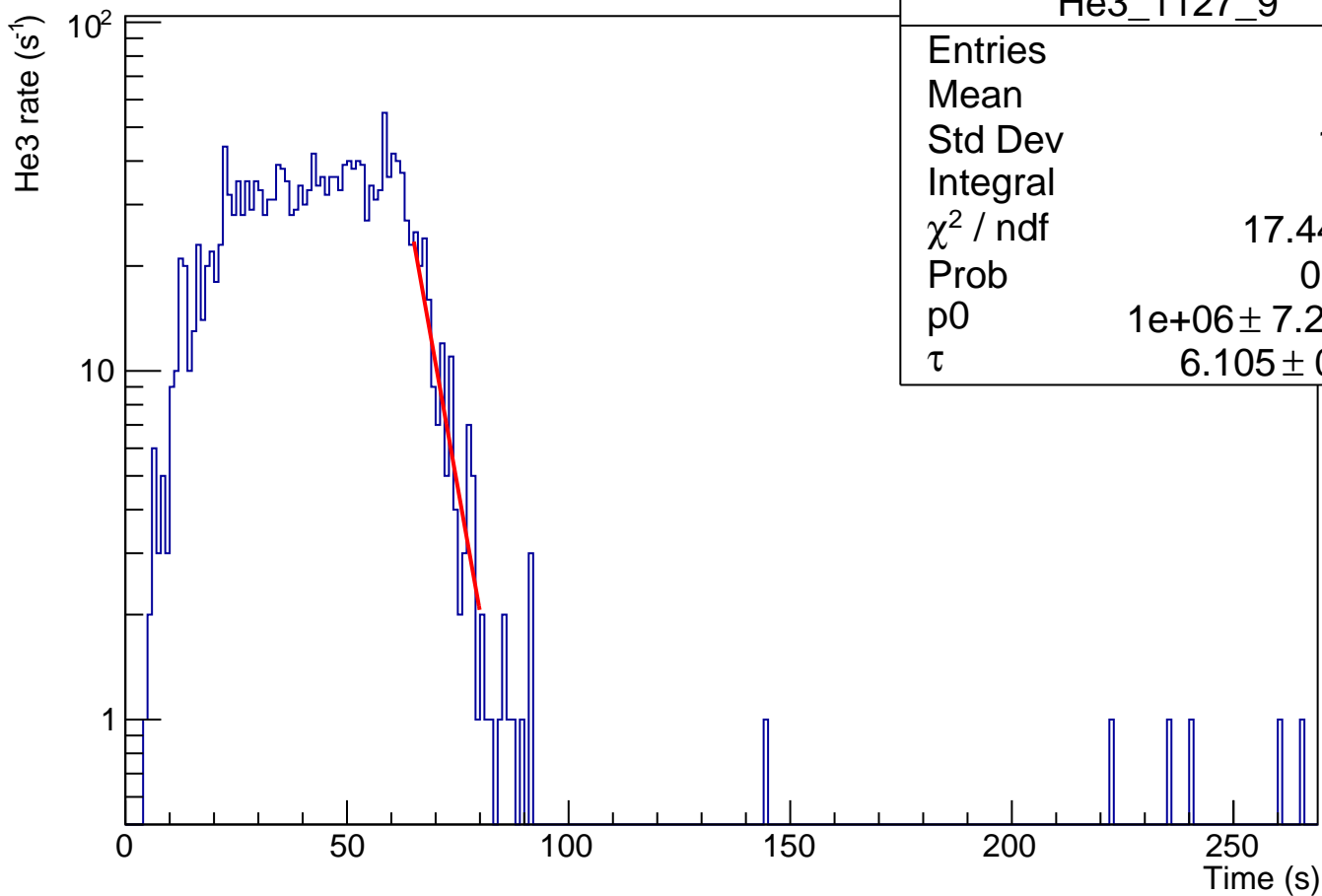
He3 detector rate

He3_1127_9	
Entries	1878
Mean	43
Std Dev	19.92
Integral	1878
χ^2 / ndf	17.44 / 13
Prob	0.1801
p0	1e+06 $\pm$ 7.2e+05
τ	6.105 $\pm$ 0.046

He3 rate (s^{-1})

Time (s)

He3 detector rate

He3_1127_15	
Entries	1885
Mean	43.81
Std Dev	19.61
Integral	1885
χ^2 / ndf	22.51 / 24
Prob	0.5489
p0	9.111e+05$\pm$ 7.912e+05
τ	6.229$\pm$ 0.643

He3 rate (s^{-1})

Time (s)
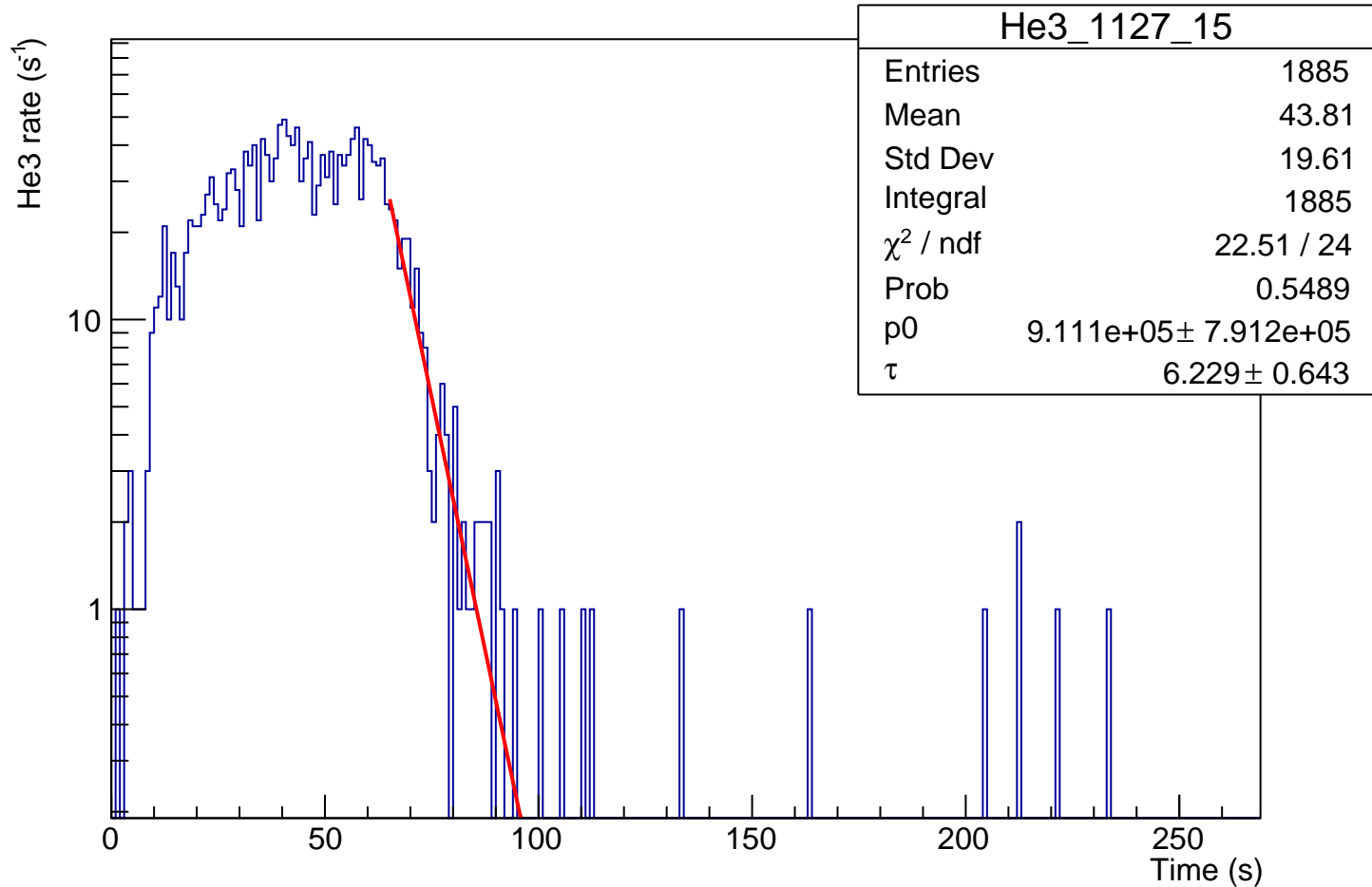
Average lifetime from He3 data:

τ = **6.16230875859 +/- 9.88486731292e-07 s**