

TCN18-127 (single exponential fit, with background subtracted, normalized to monitor detector)

UCN-count-to-monitor ratio

$10^{-1}$

1

0

20

40

60

80

100

120

140

160

Storage time (s)

$\chi^2 / \text{ndf}$

33.99 / 23

Prob

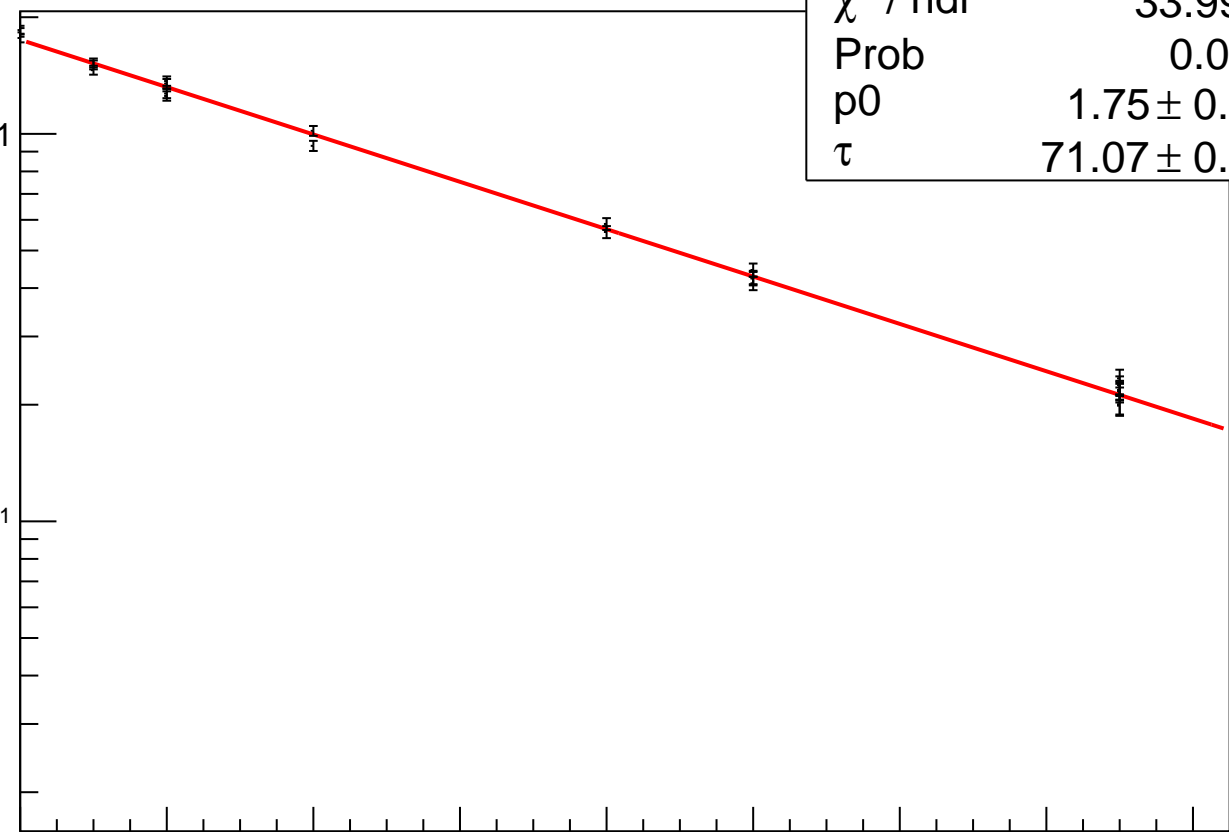
0.06523

p0

$1.75 \pm 0.0156$

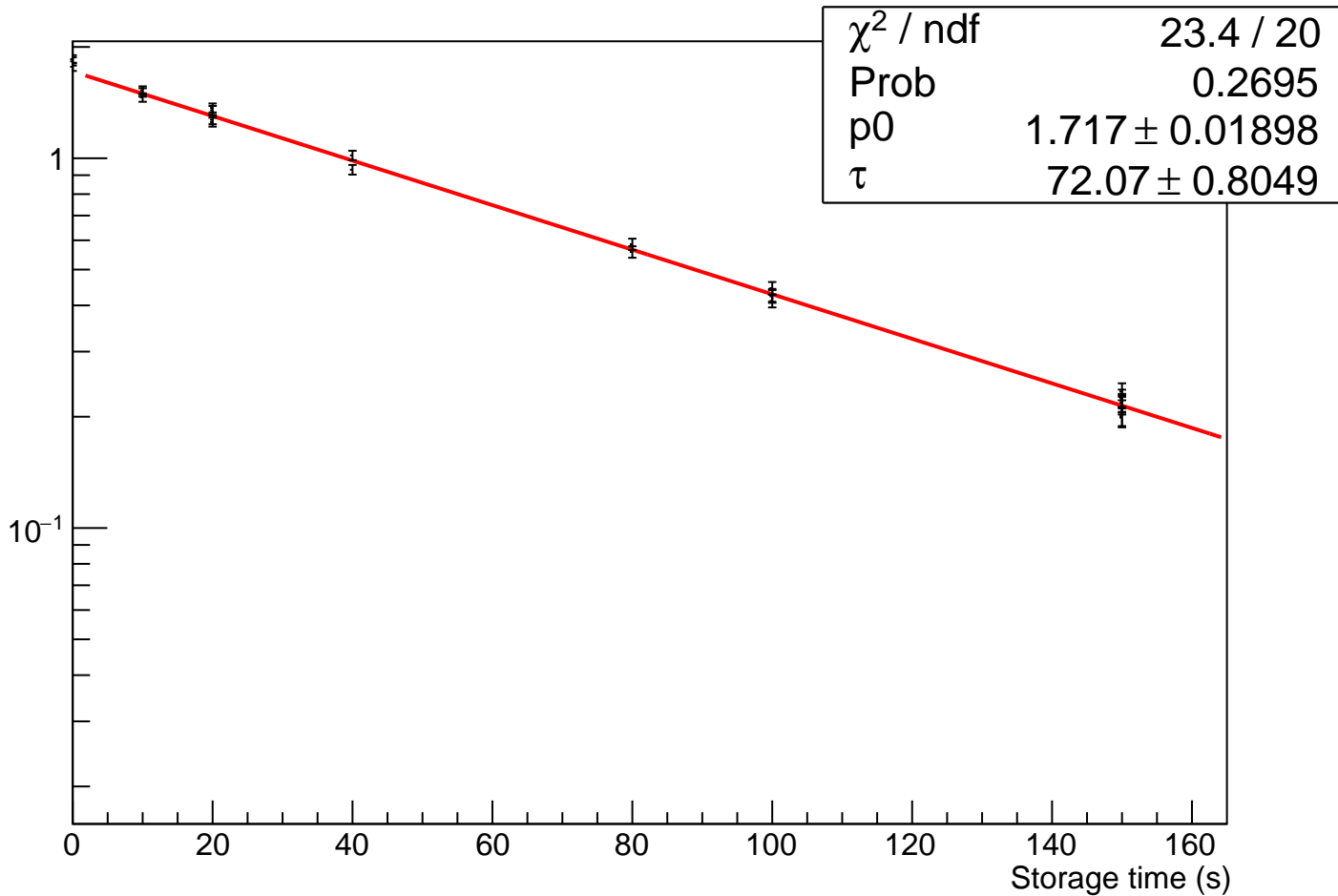
$\tau$

$71.07 \pm 0.7109$



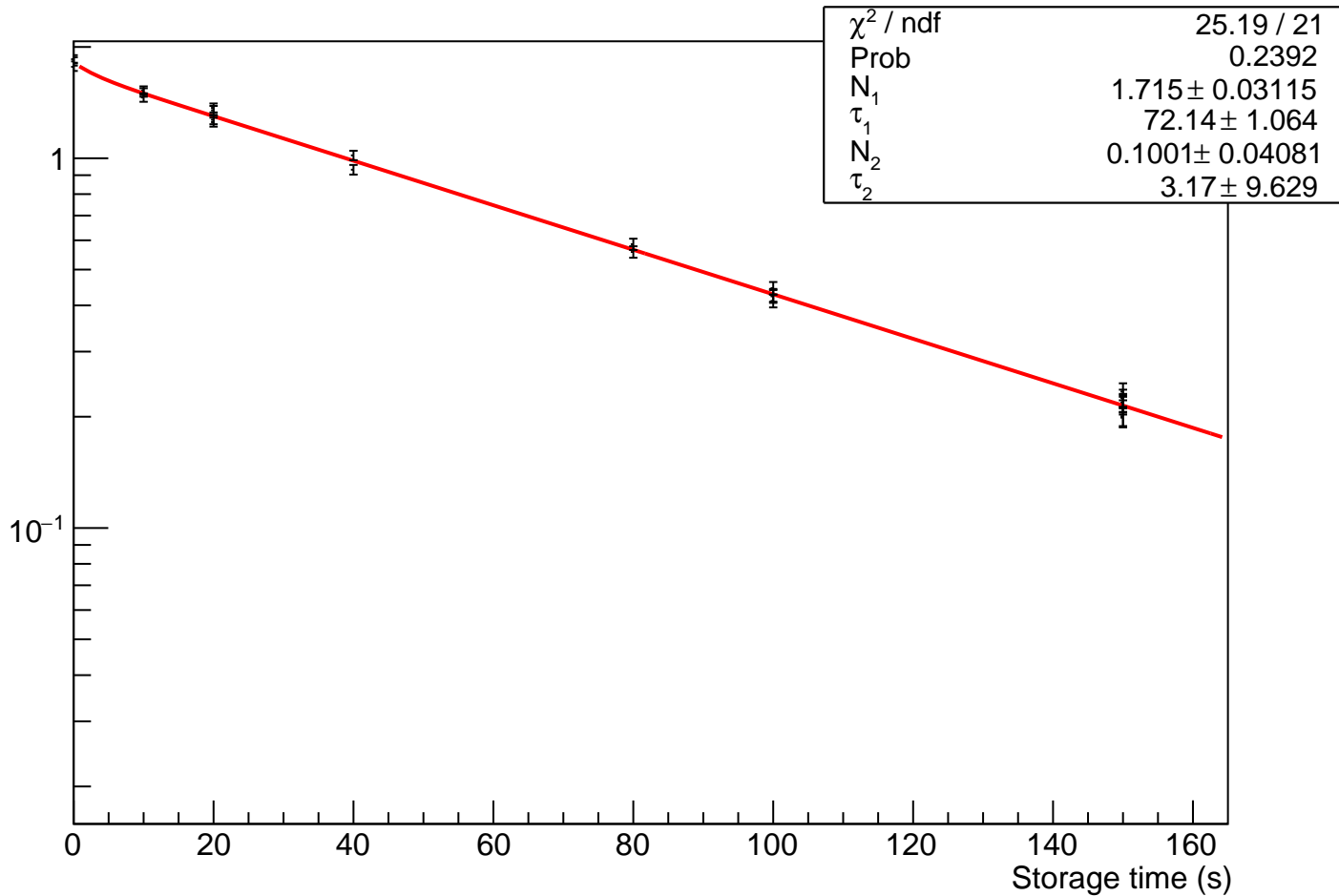
TCN18-127 (single exponential fit, with background subtracted, normalized to monitor detector, 0s excluded)

UCN-count-to-monitor ratio

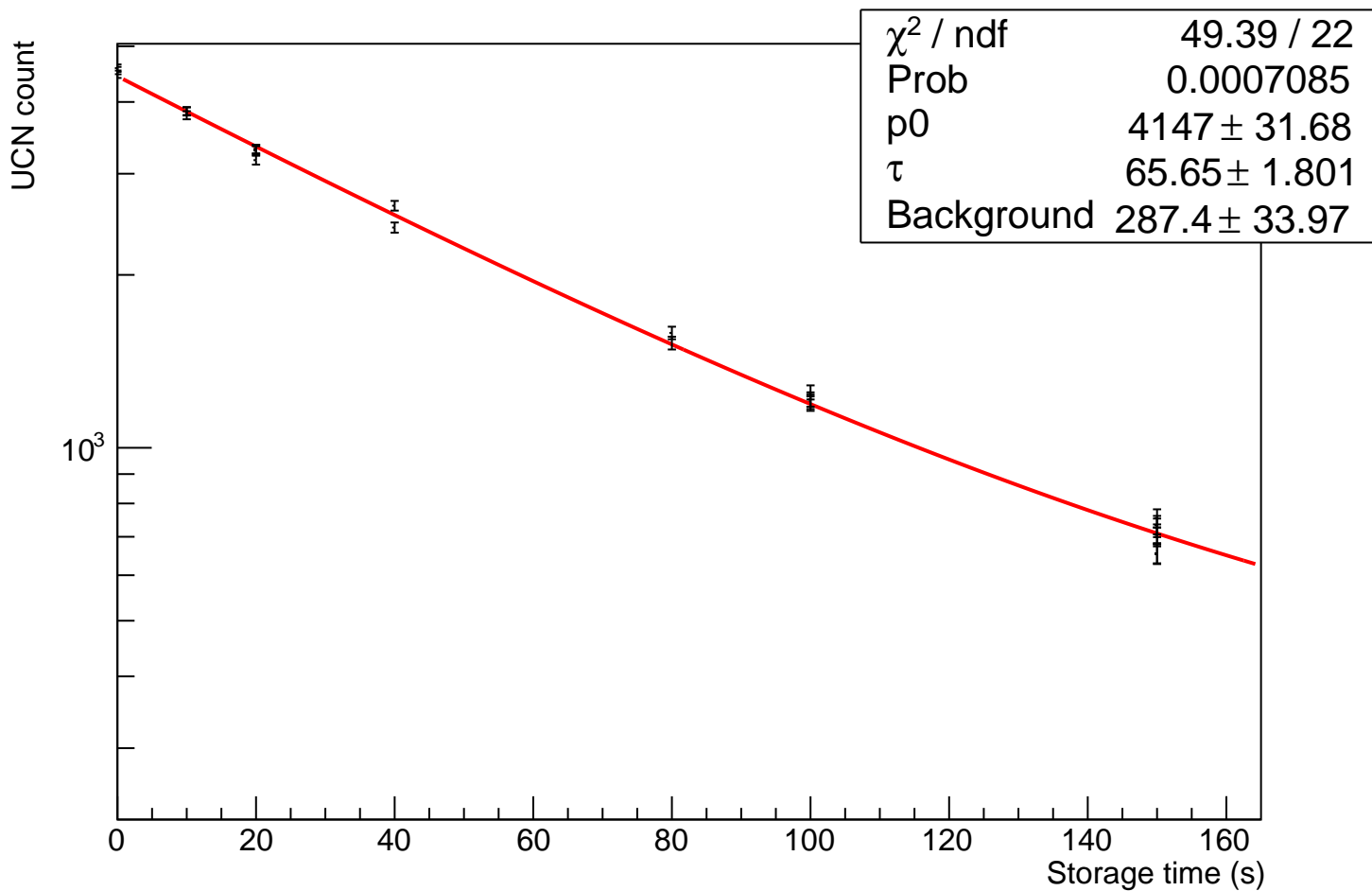


TCN18-127 (double exponential fit, with background subtracted, normalized to monitor detector)

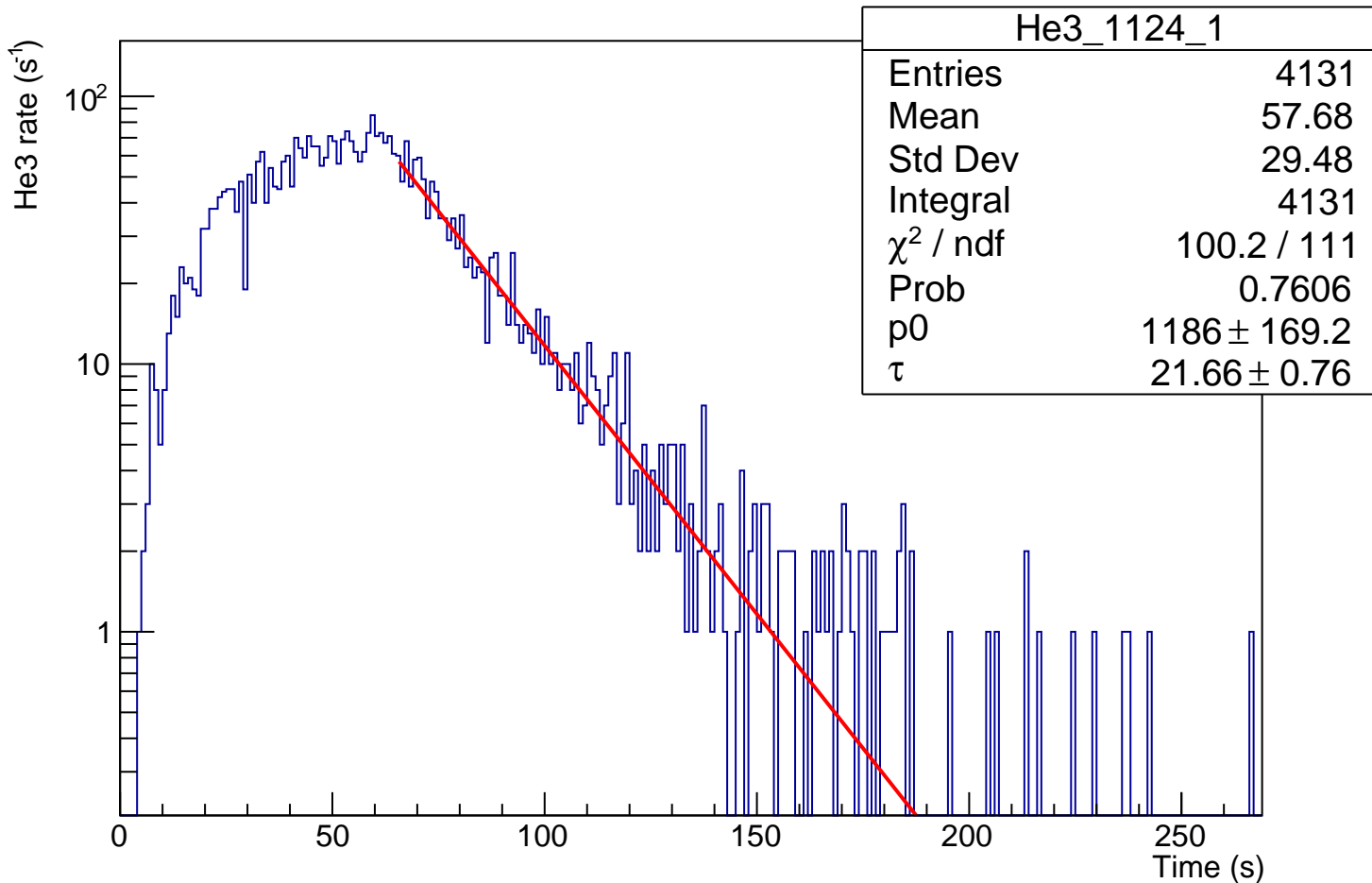
UCN-count-to-monitor ratio



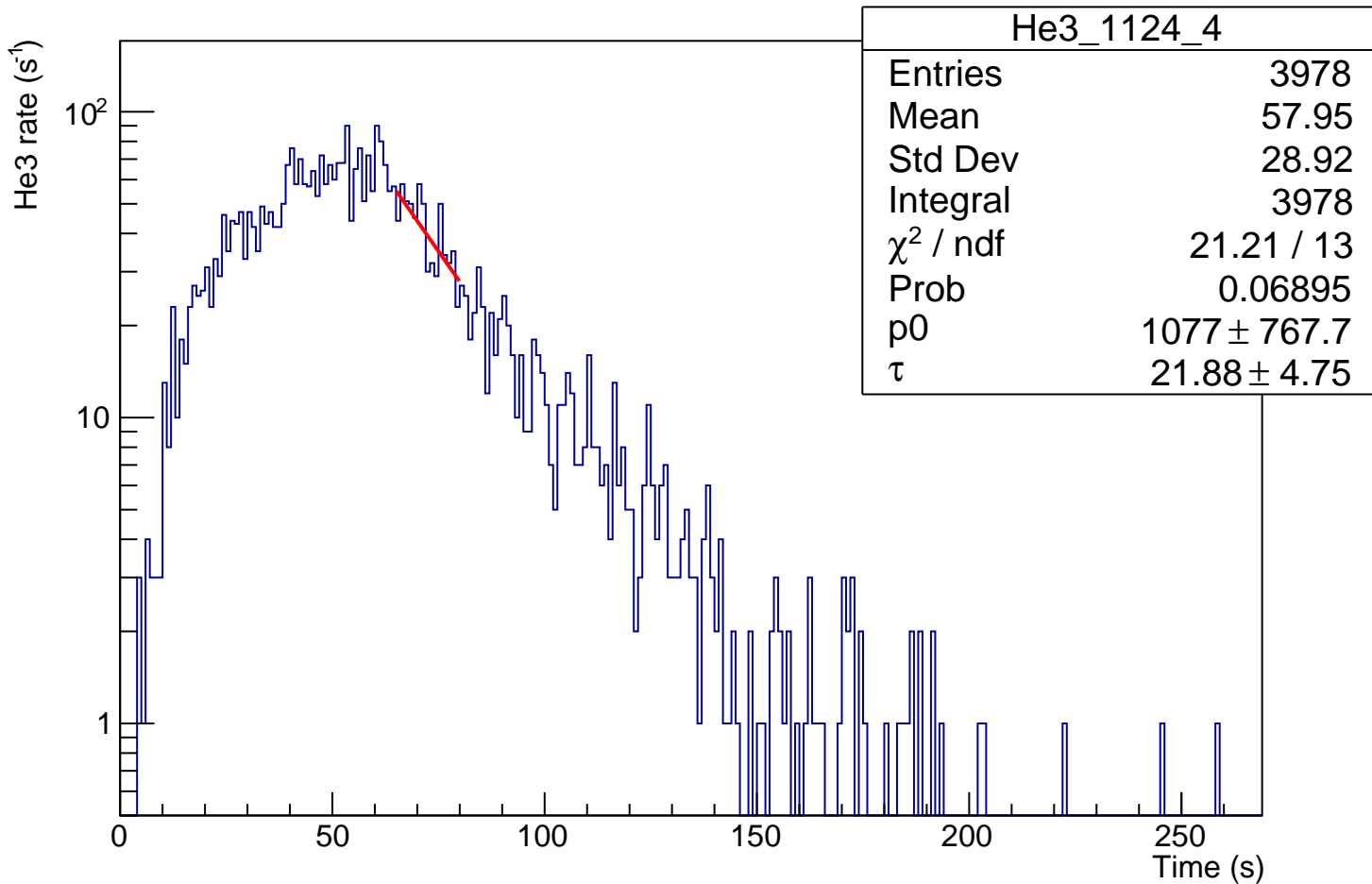
TCN18-127 (single exponential fit + background, unnormalized)



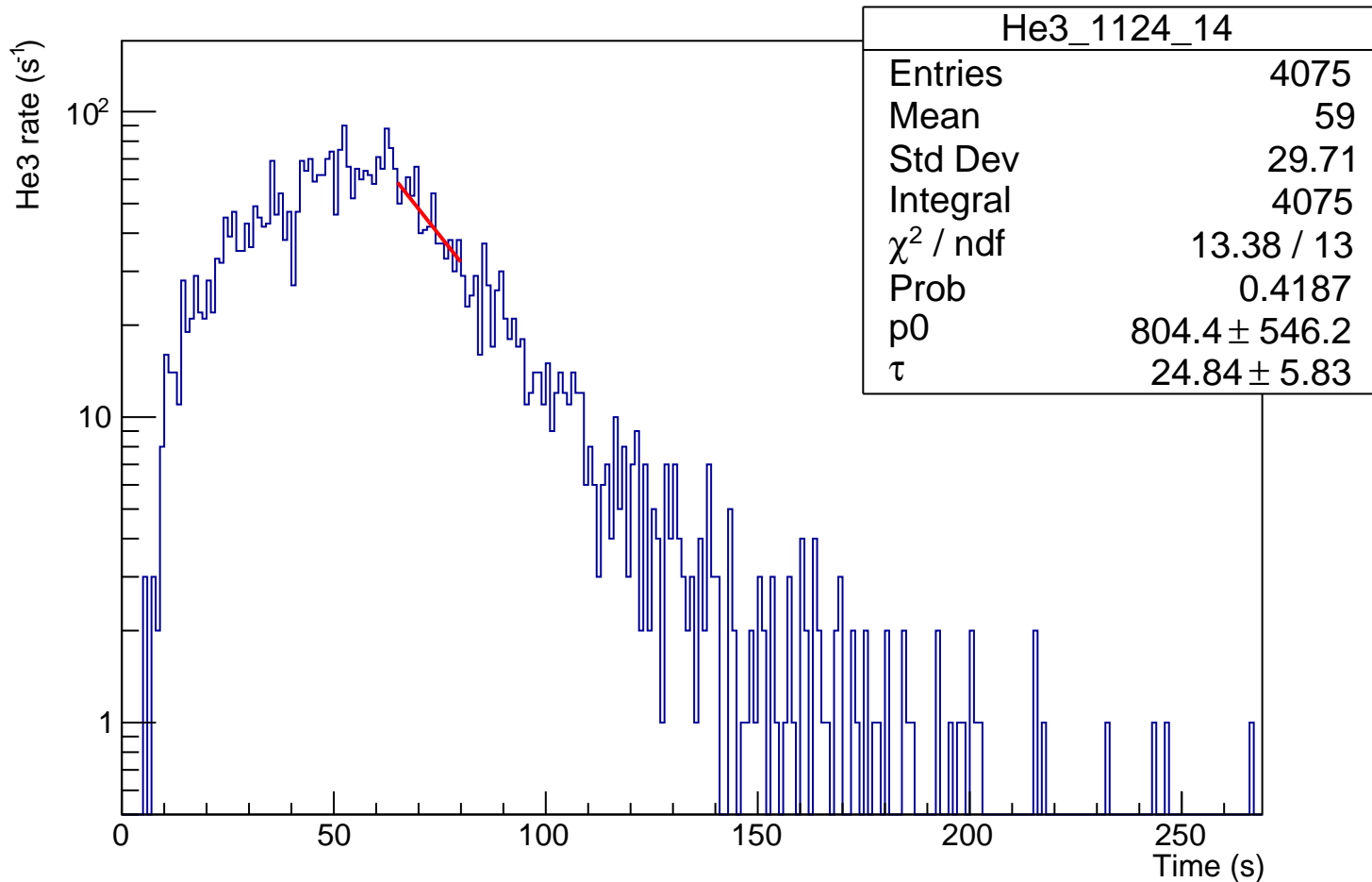
# He3 detector rate



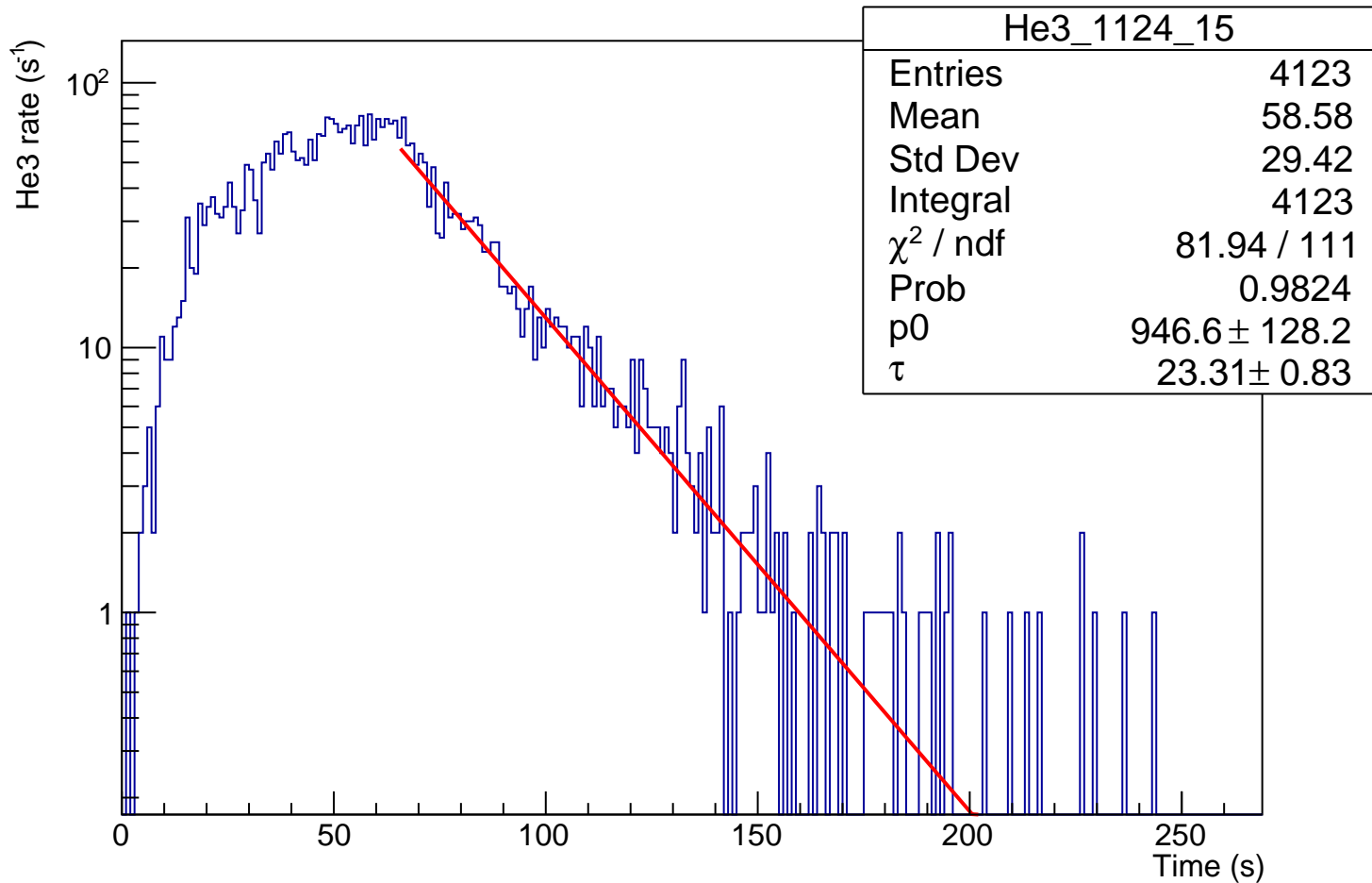
# He3 detector rate



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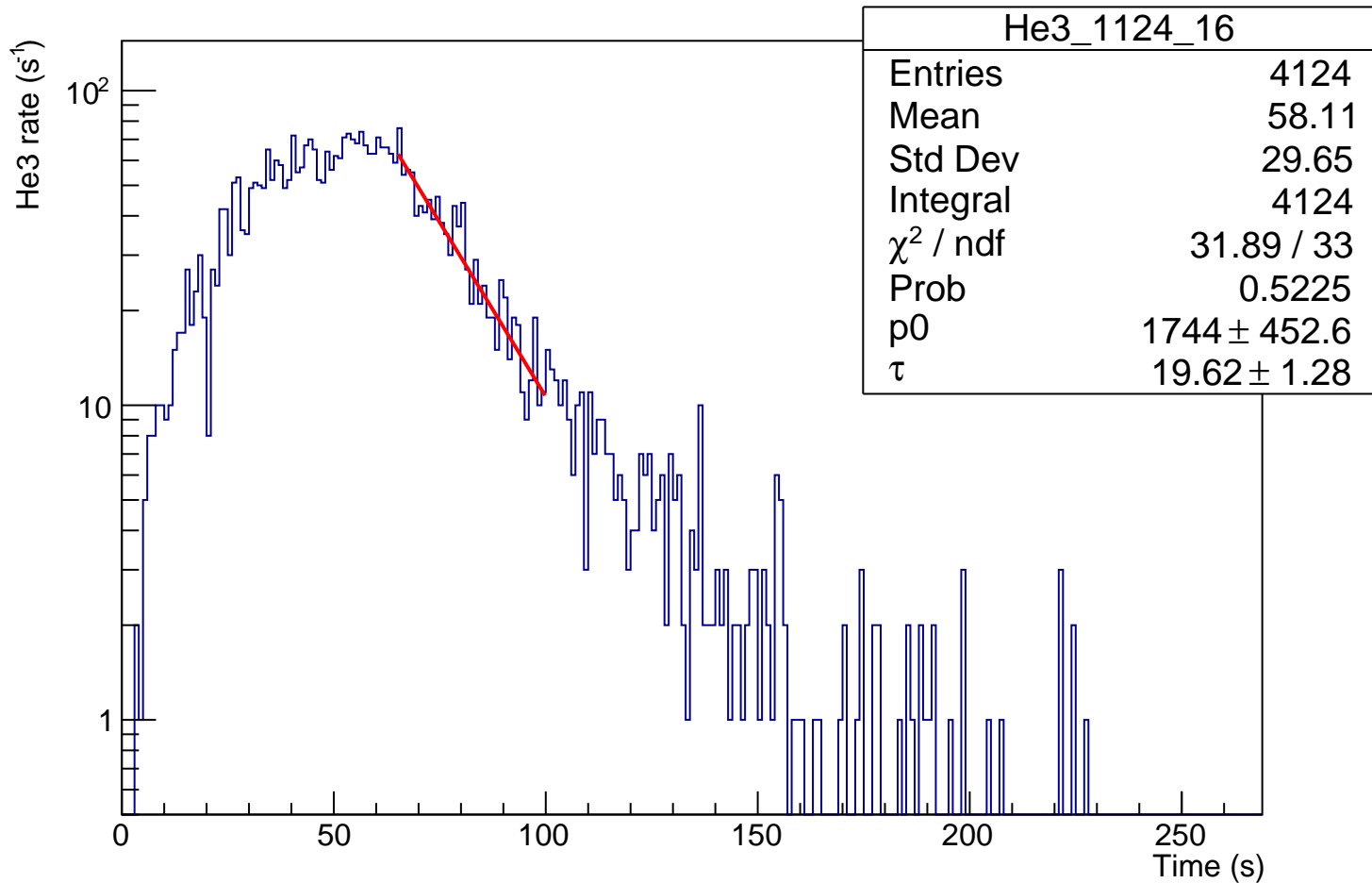


# He3 detector rate

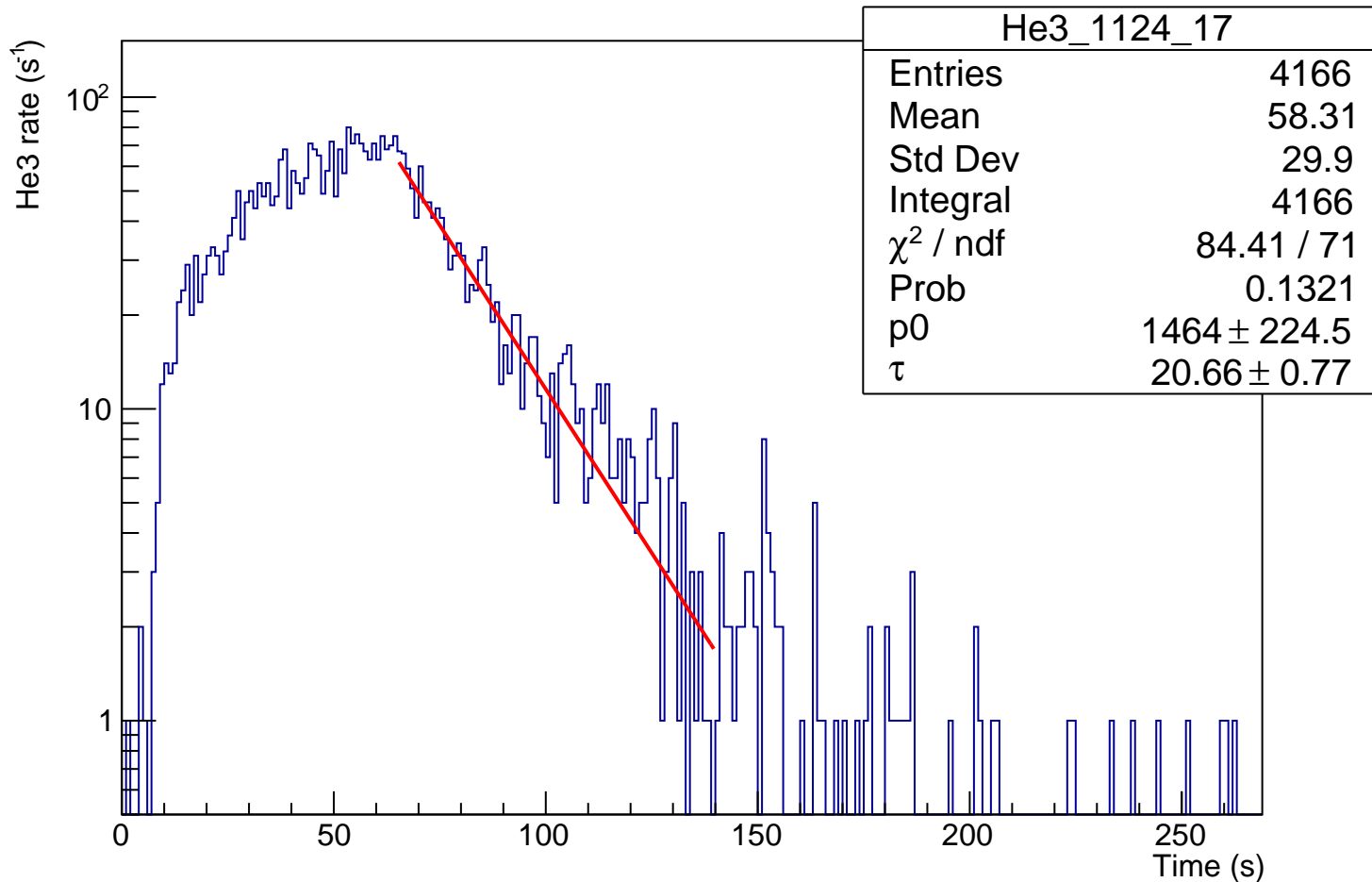




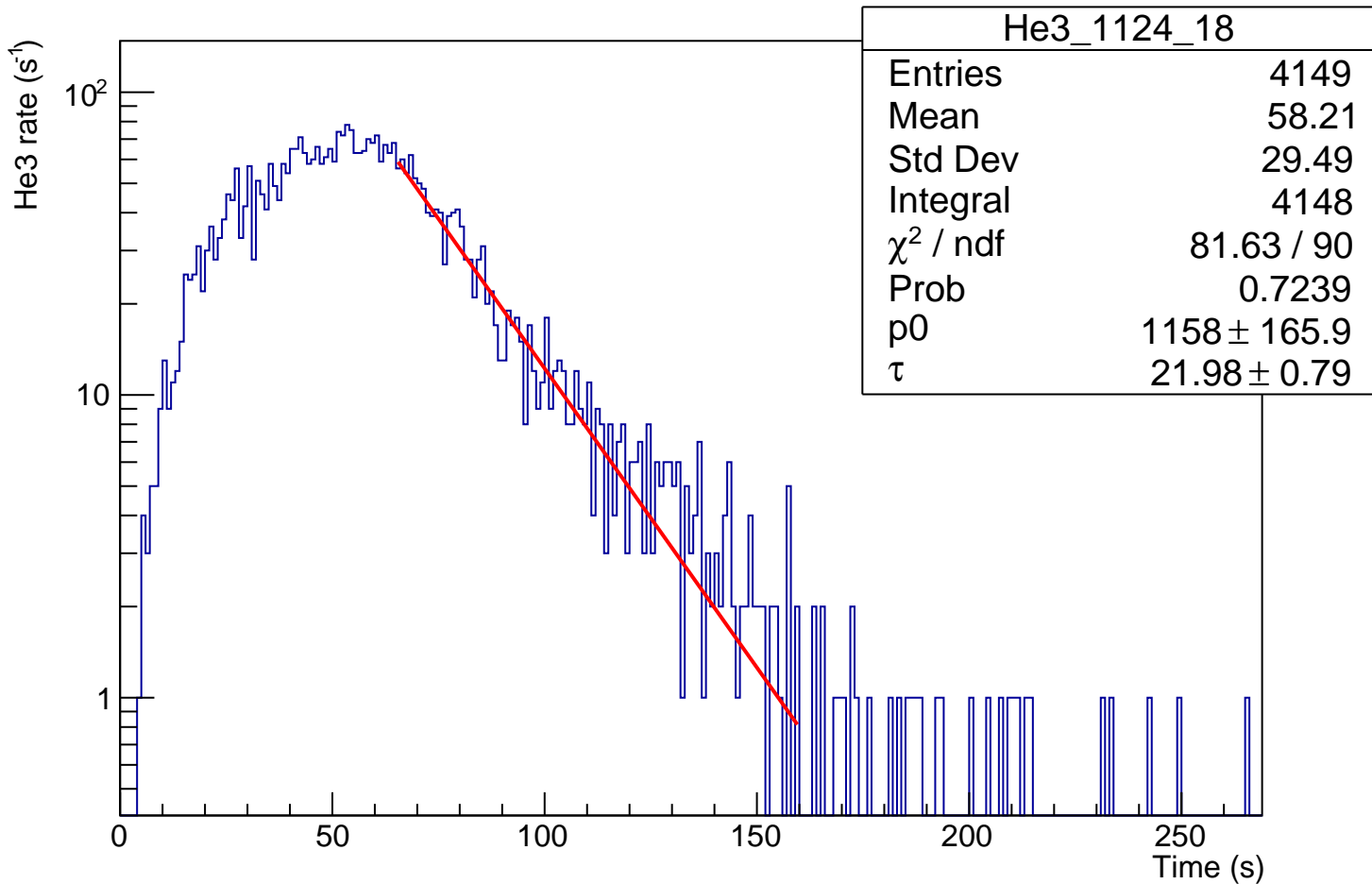
# He3 detector rate



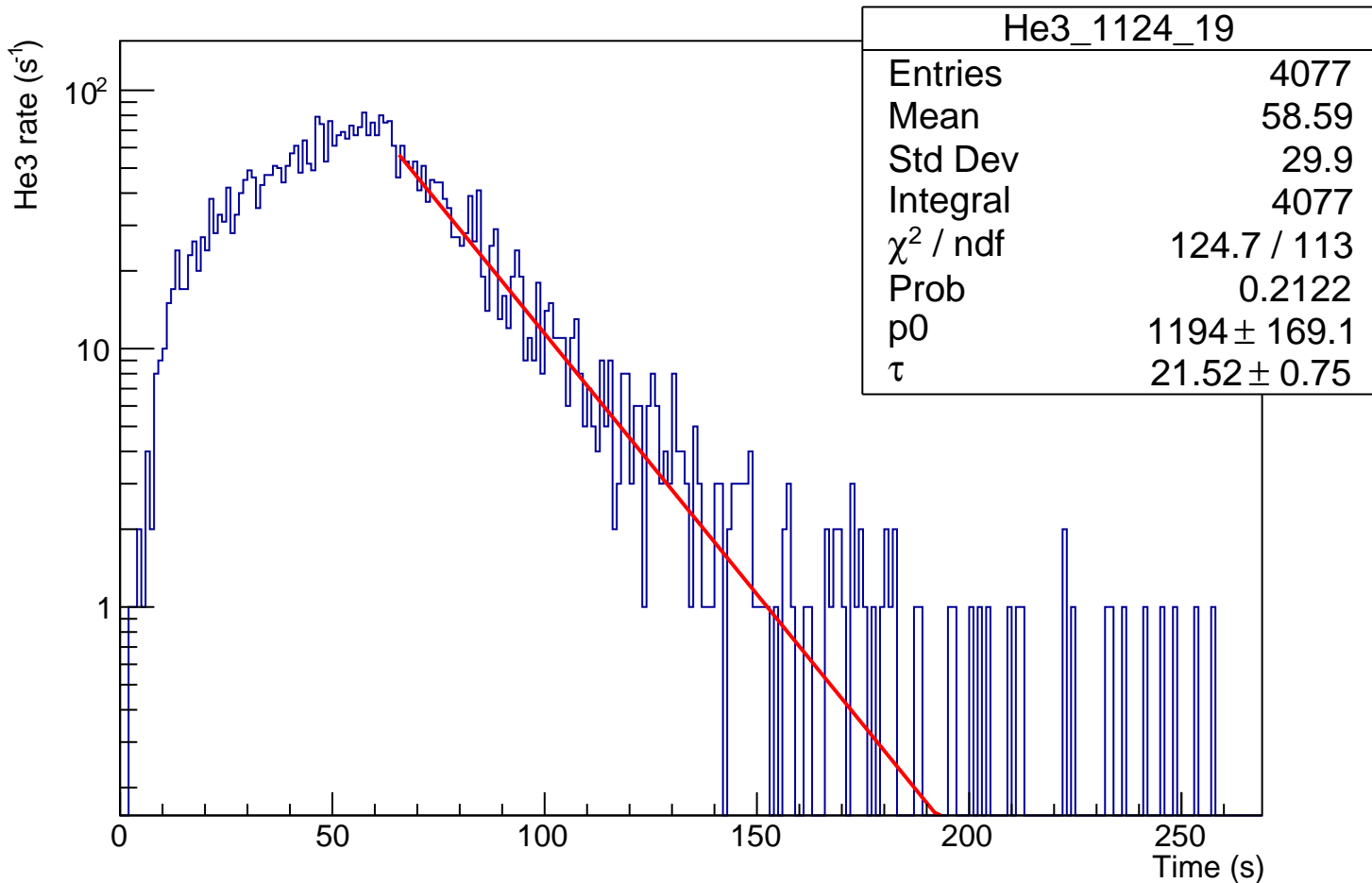
# He3 detector rate



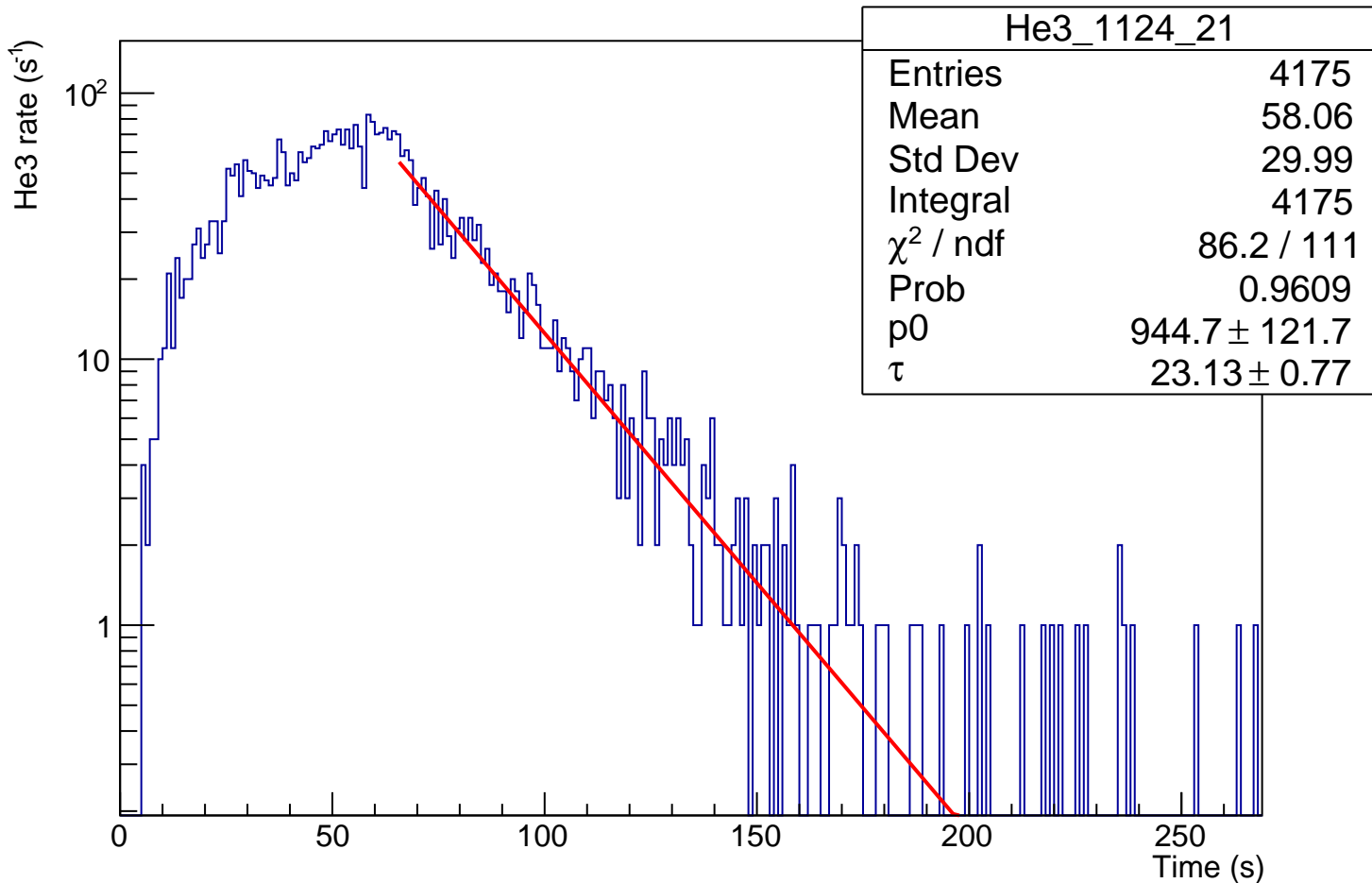
# He3 detector rate



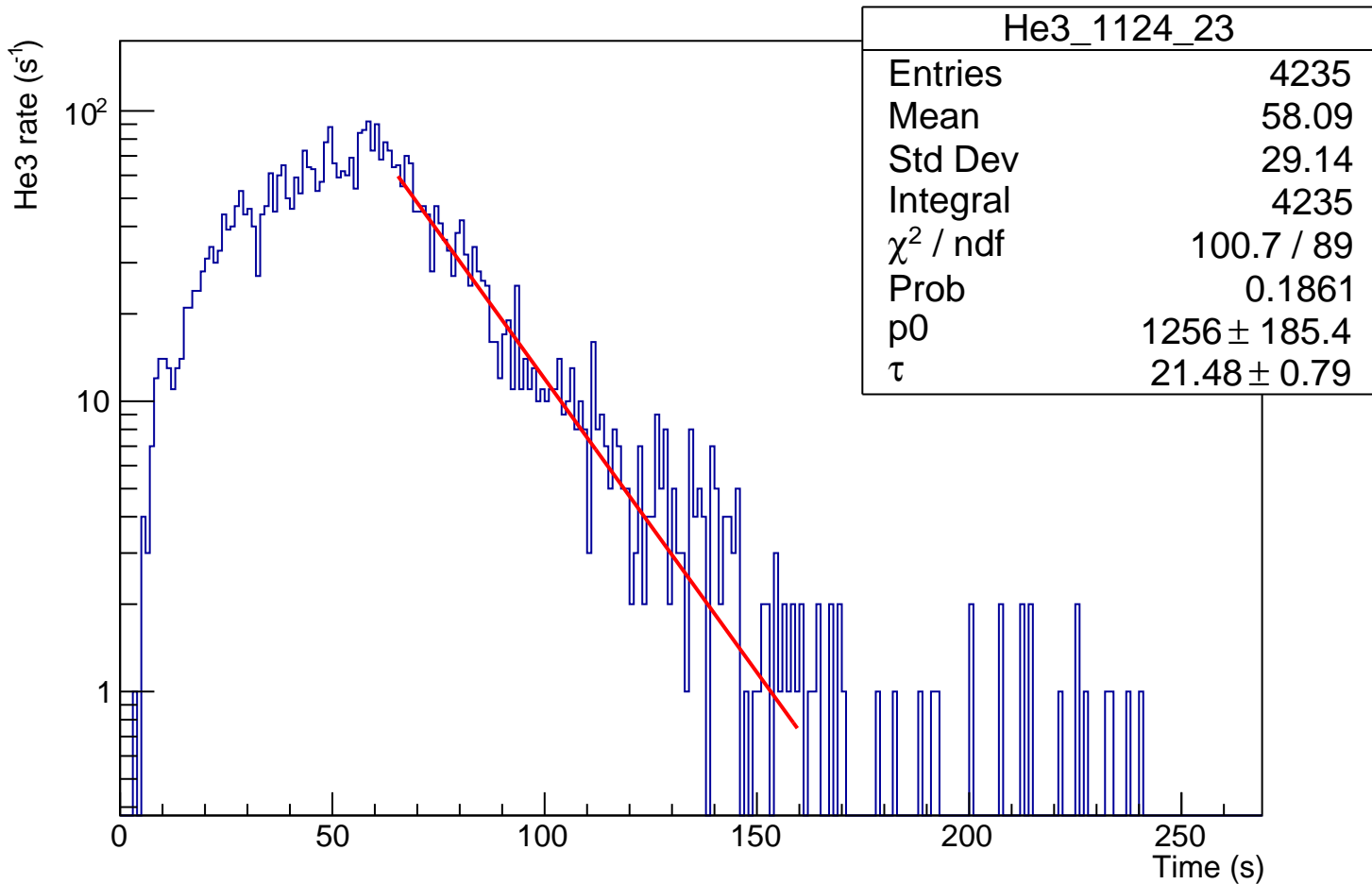
# He3 detector rate



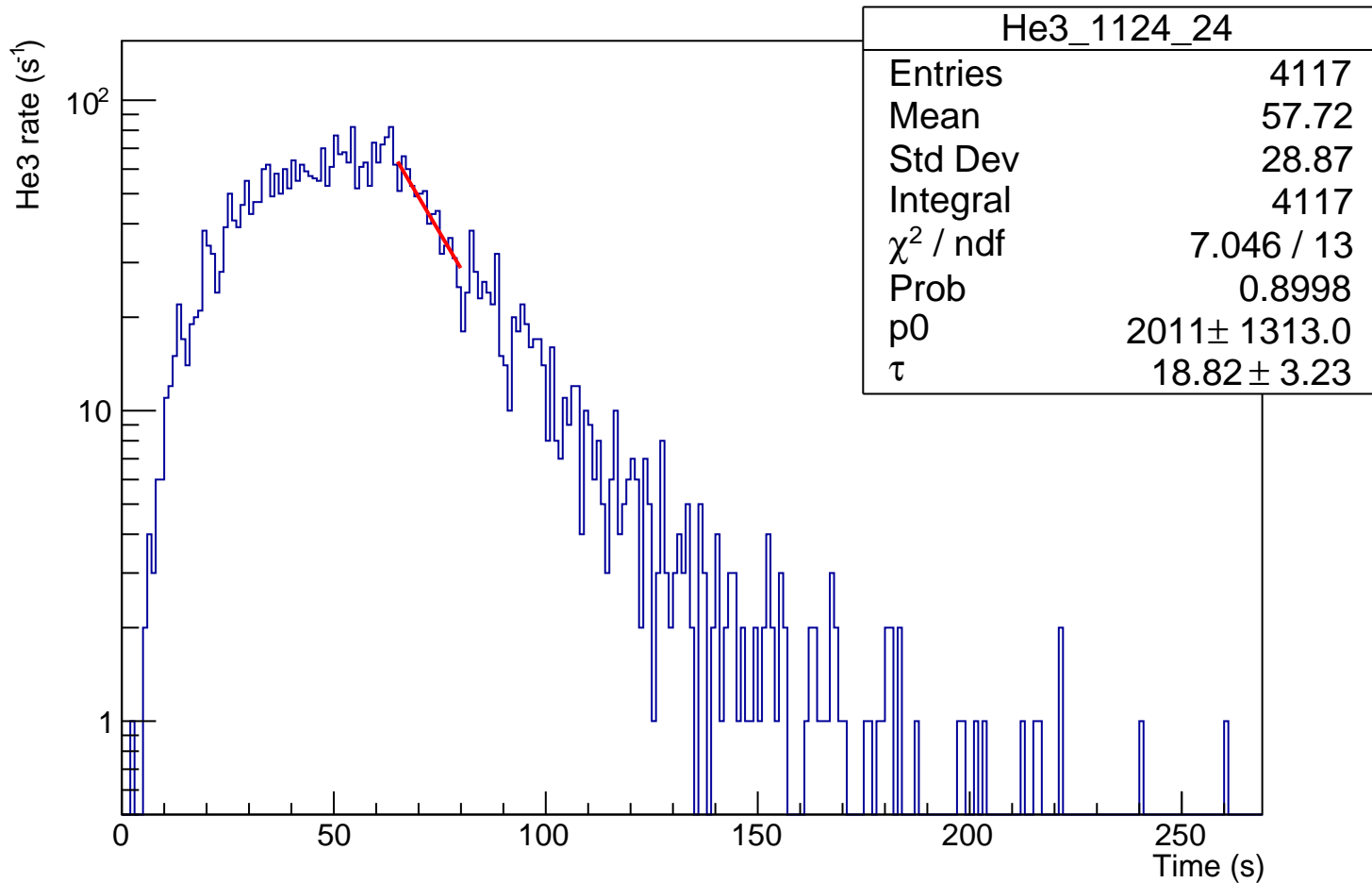
# He3 detector rate



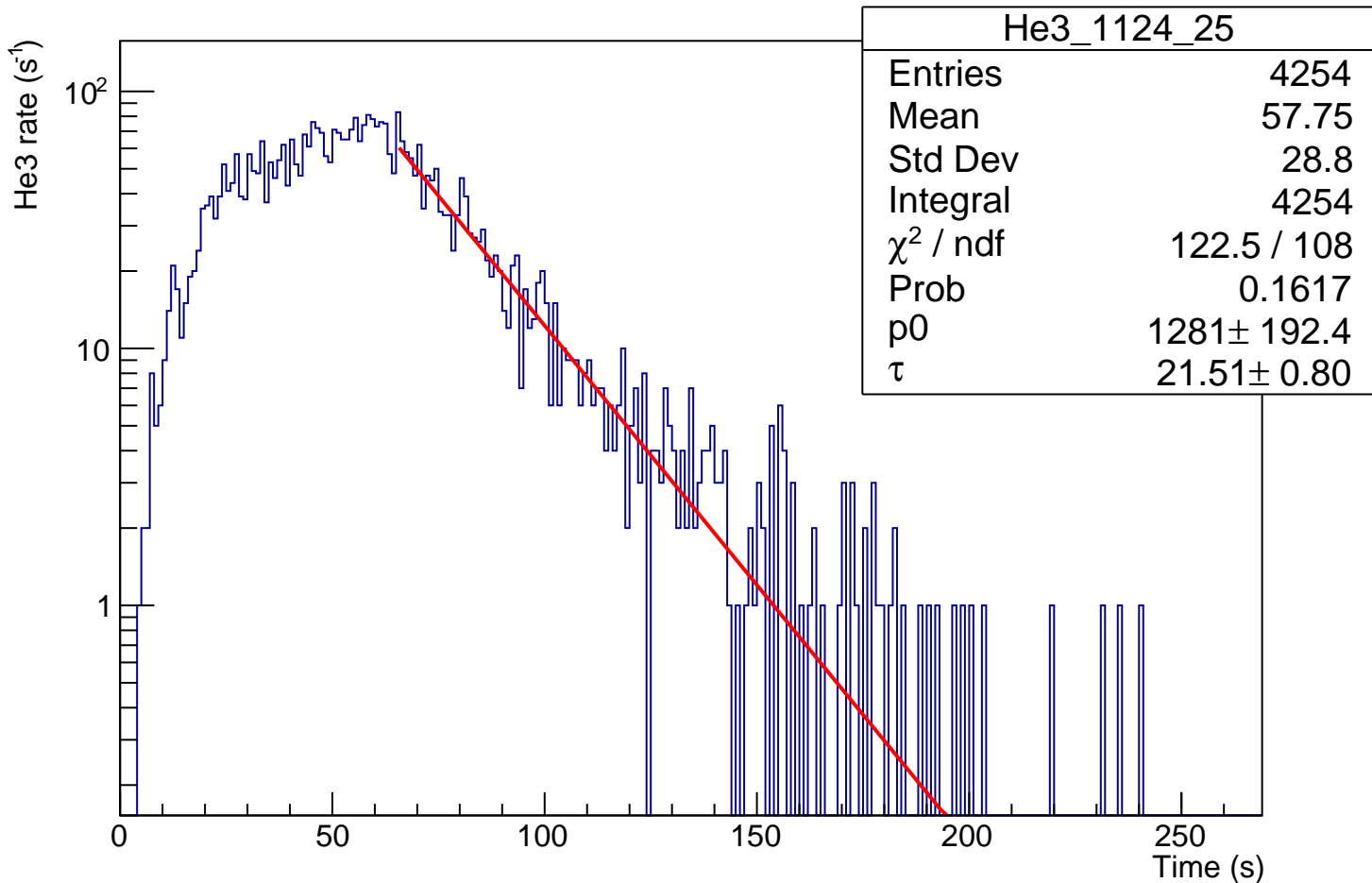
# He3 detector rate



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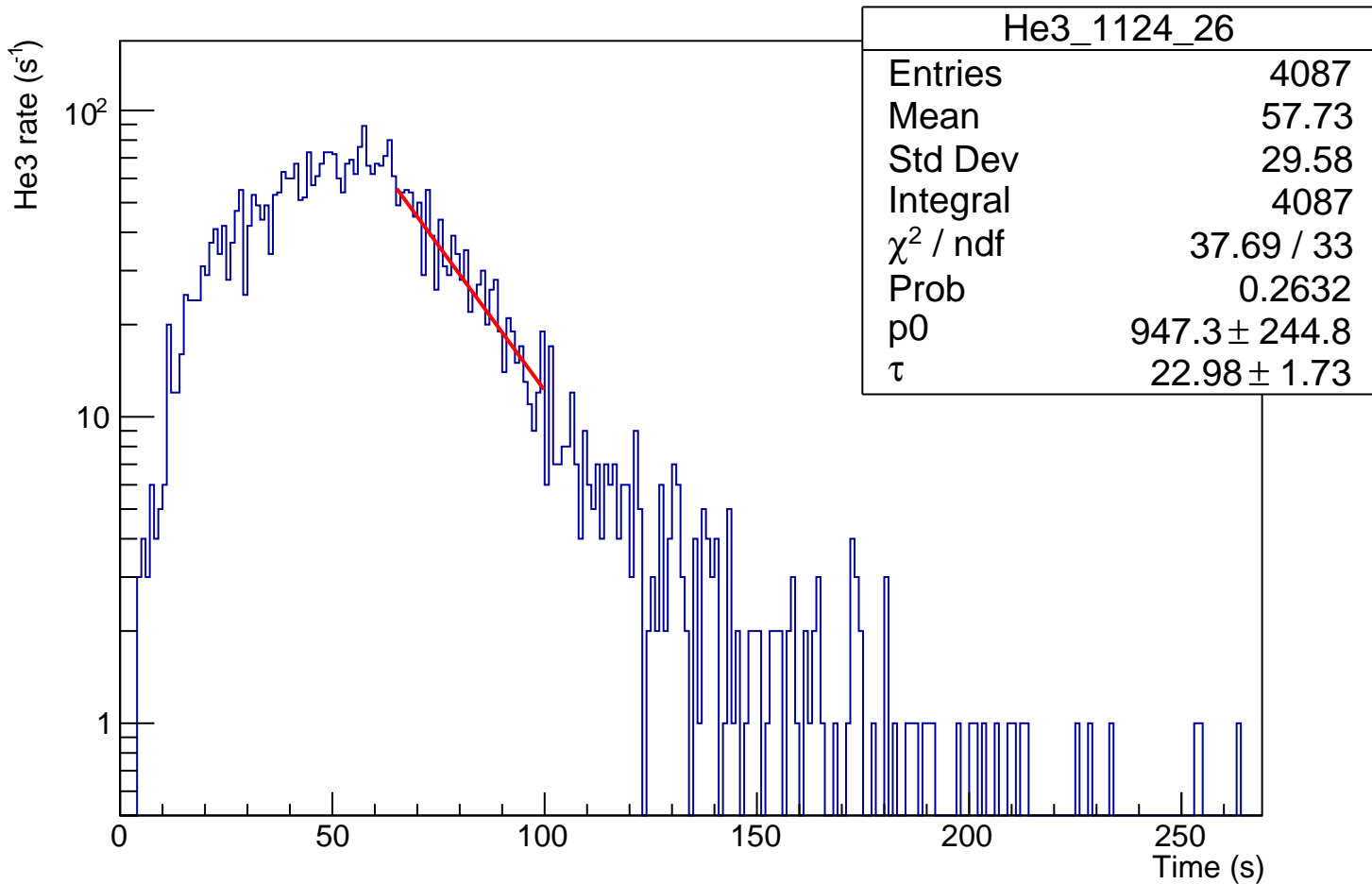


# He3 detector rate

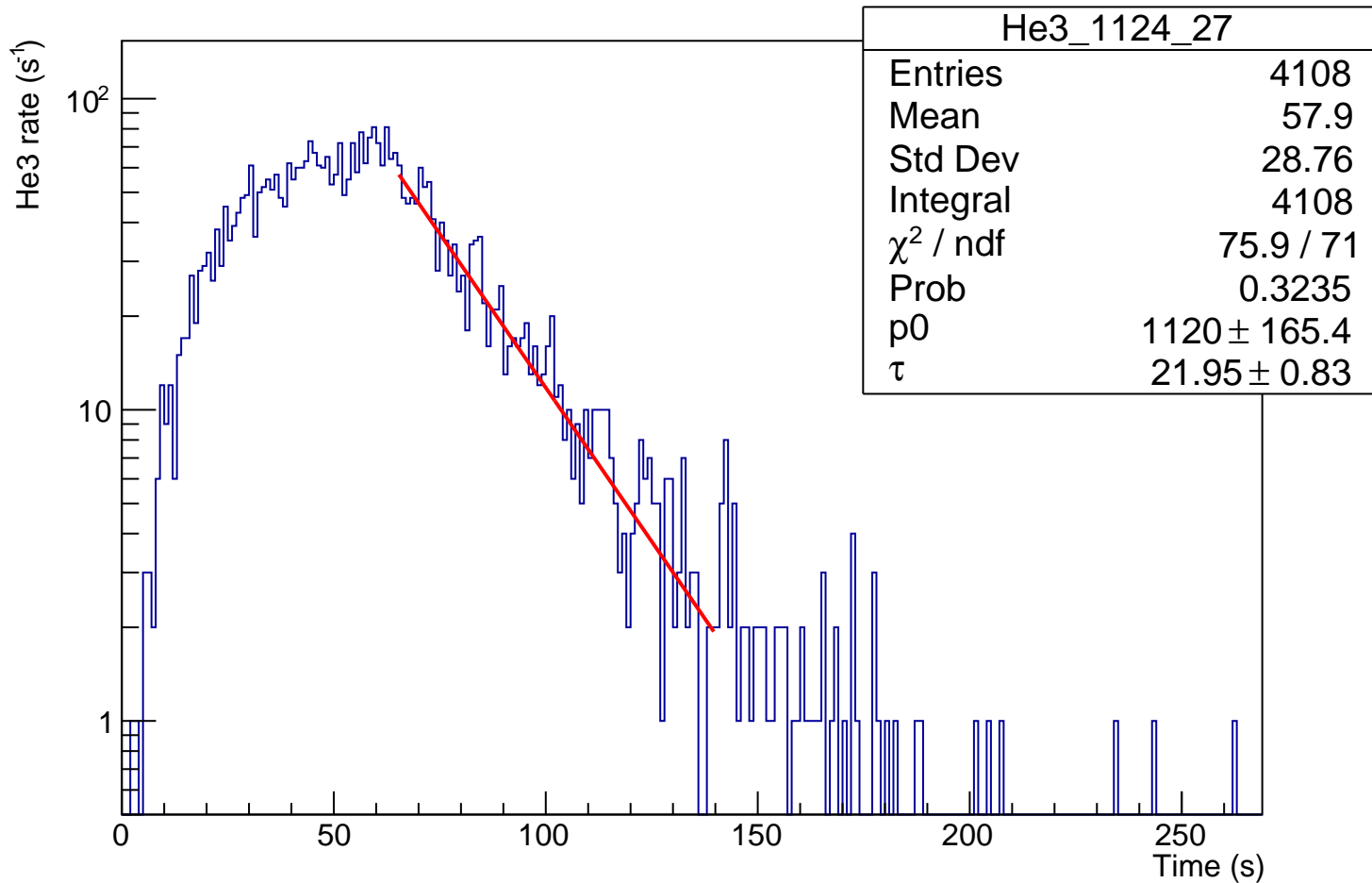




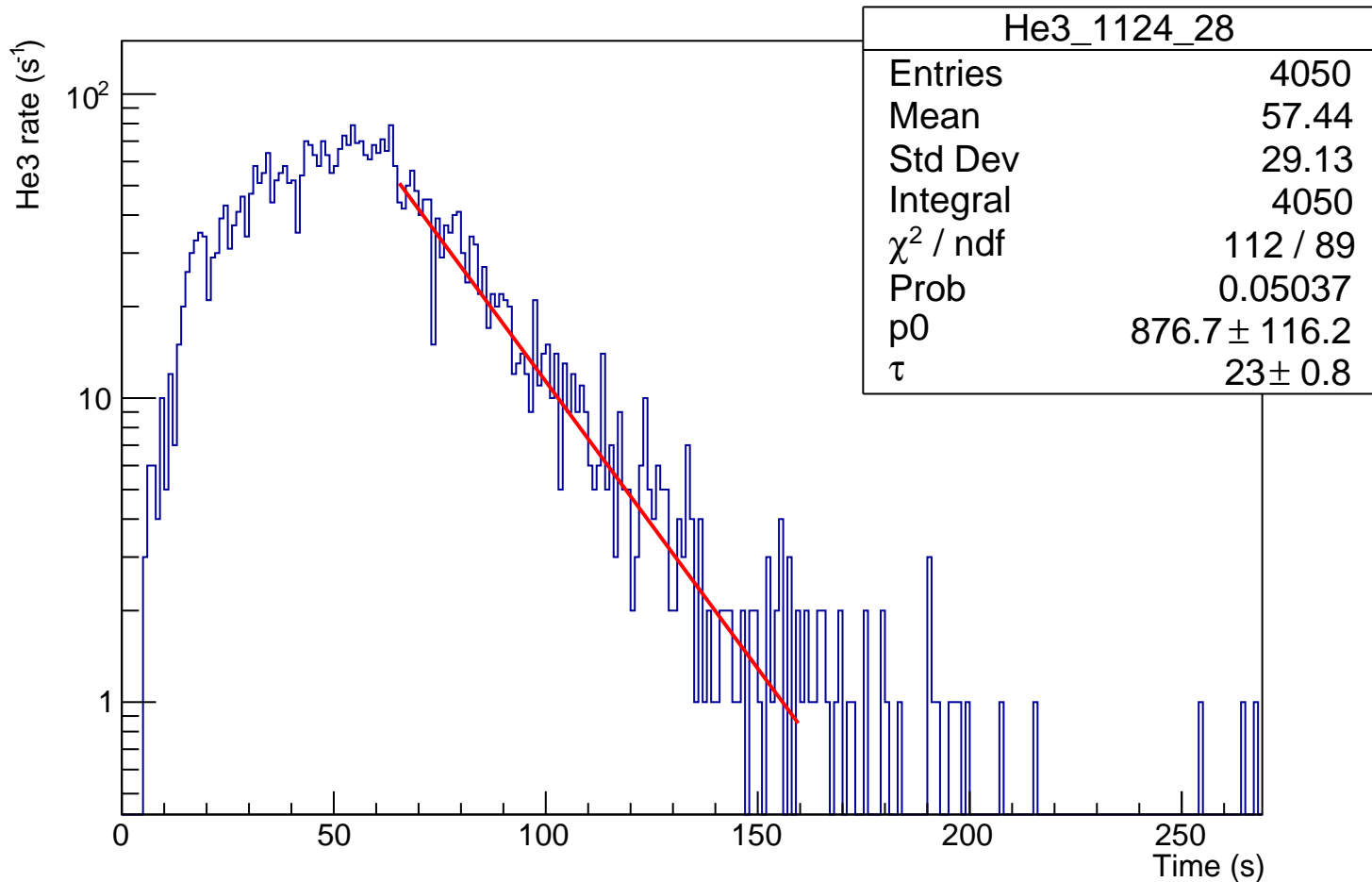
# He3 detector rate



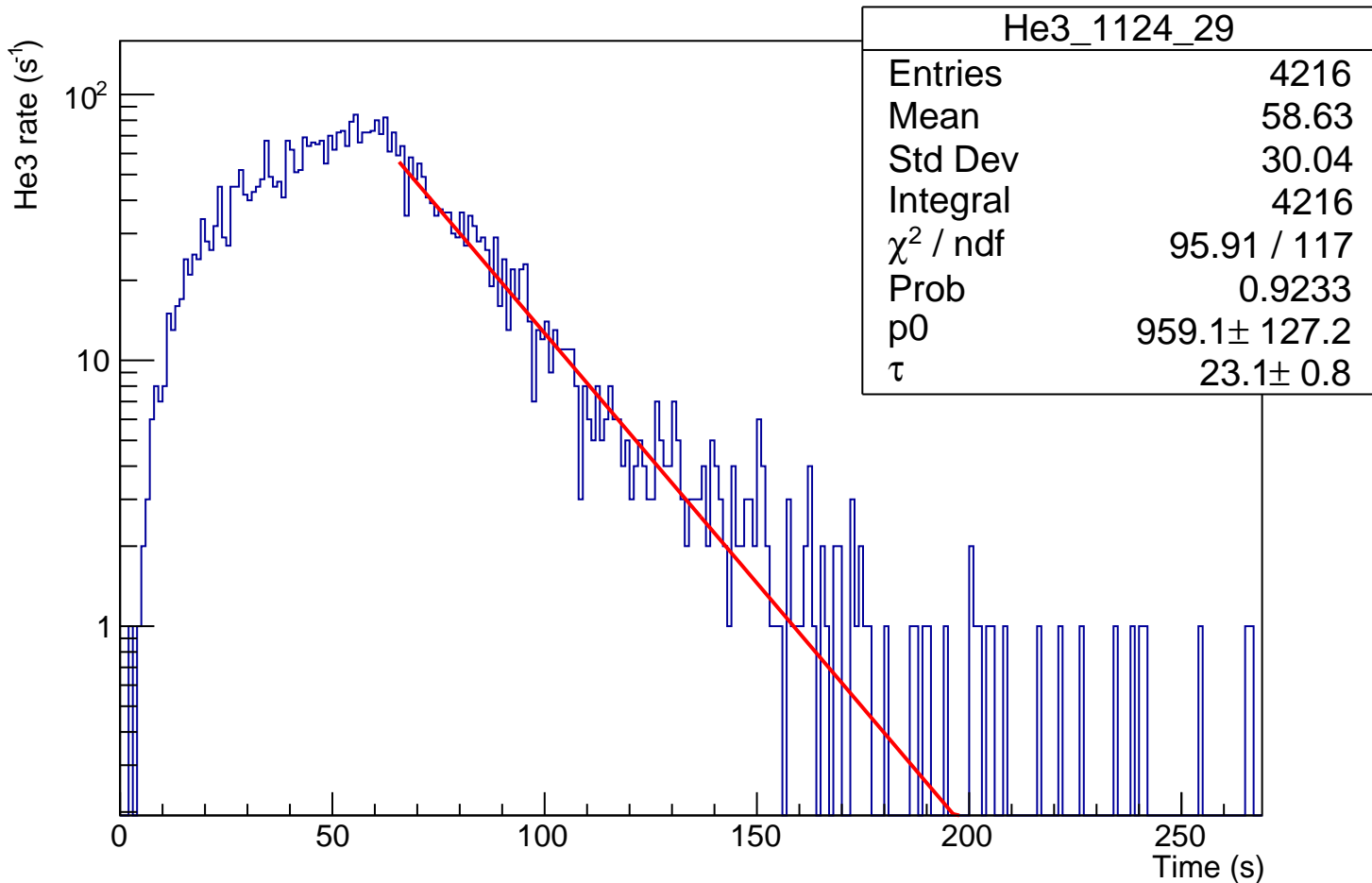
# He3 detector rate



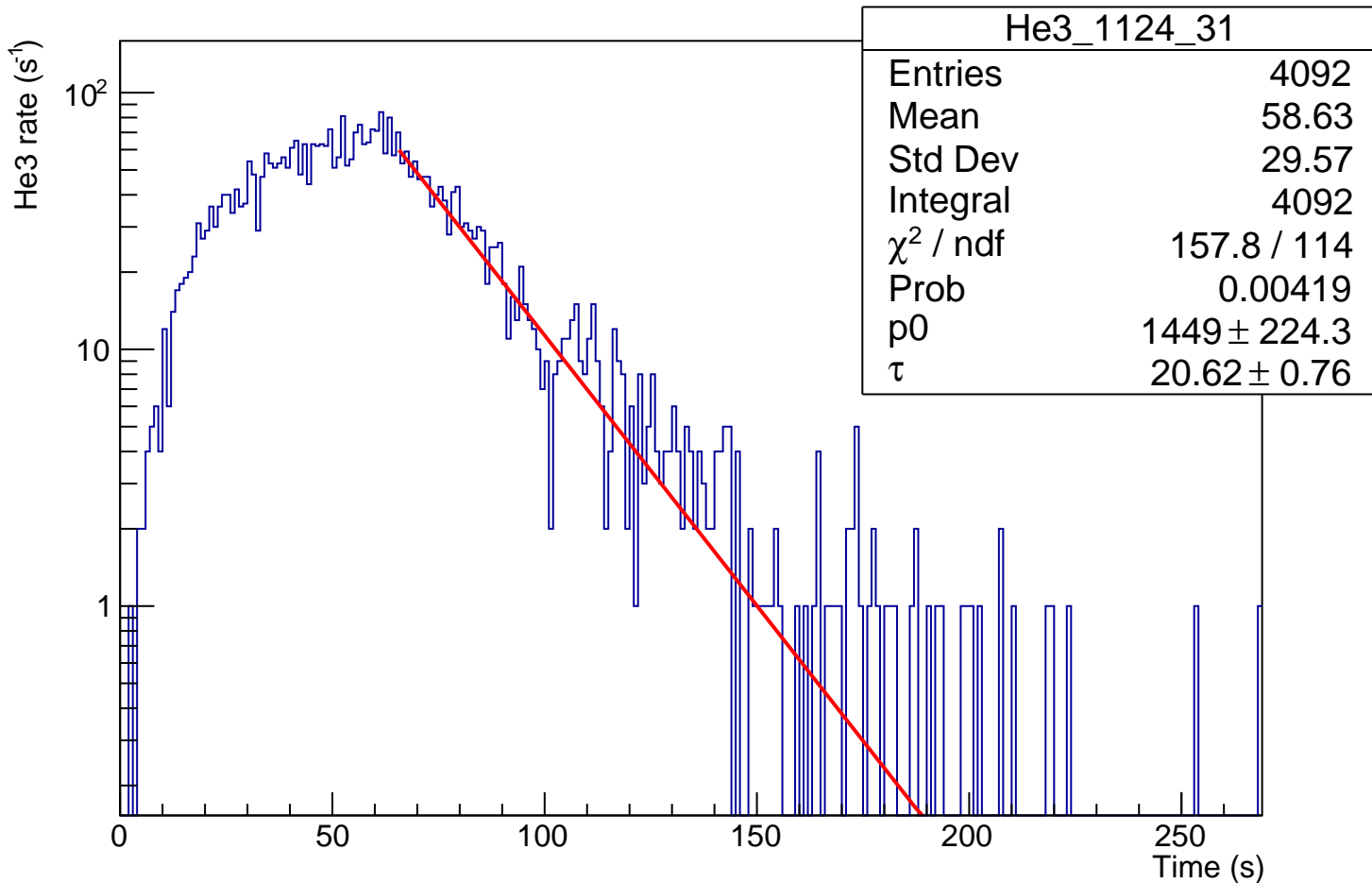
# He3 detector rate



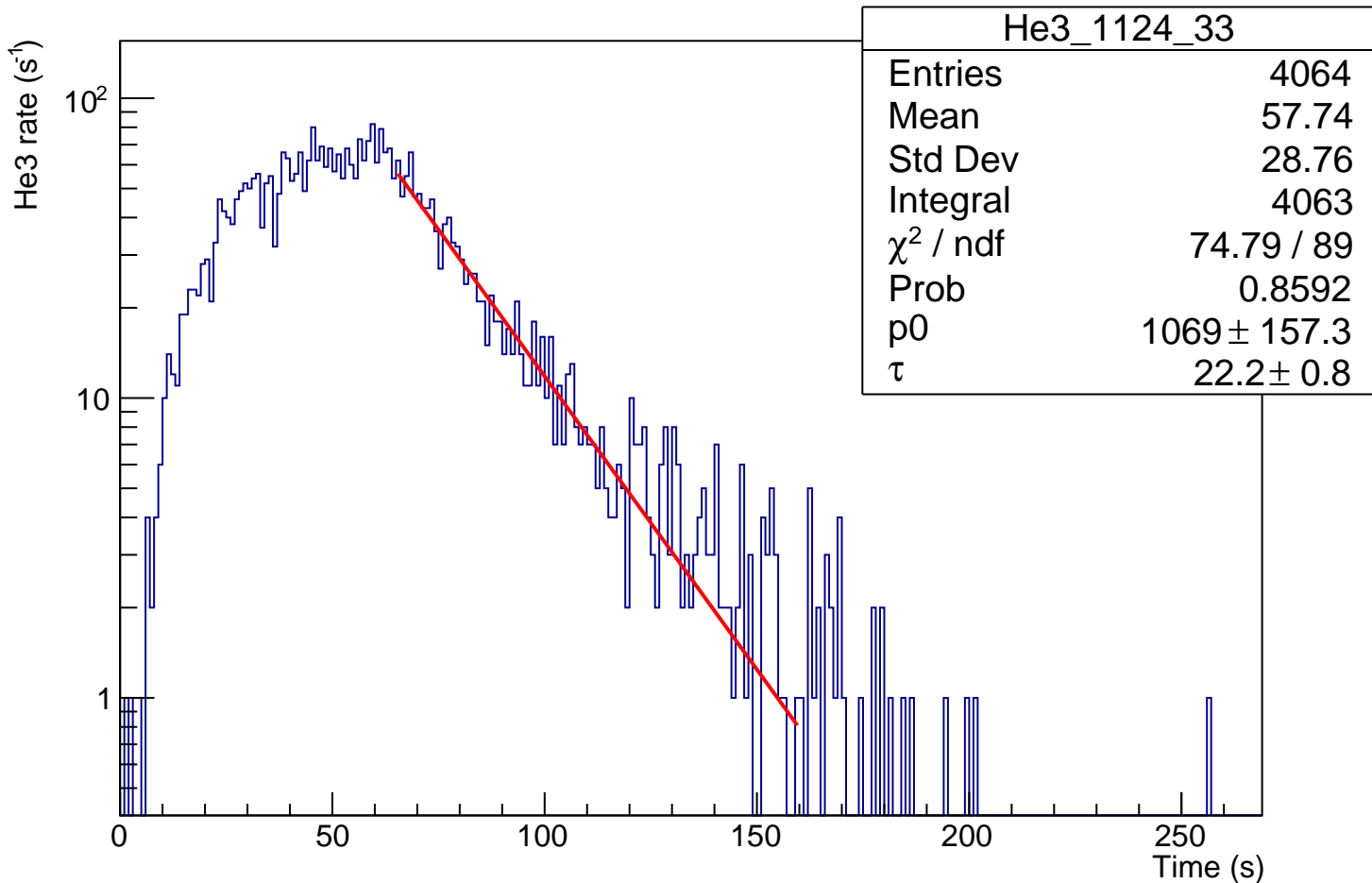
# He3 detector rate



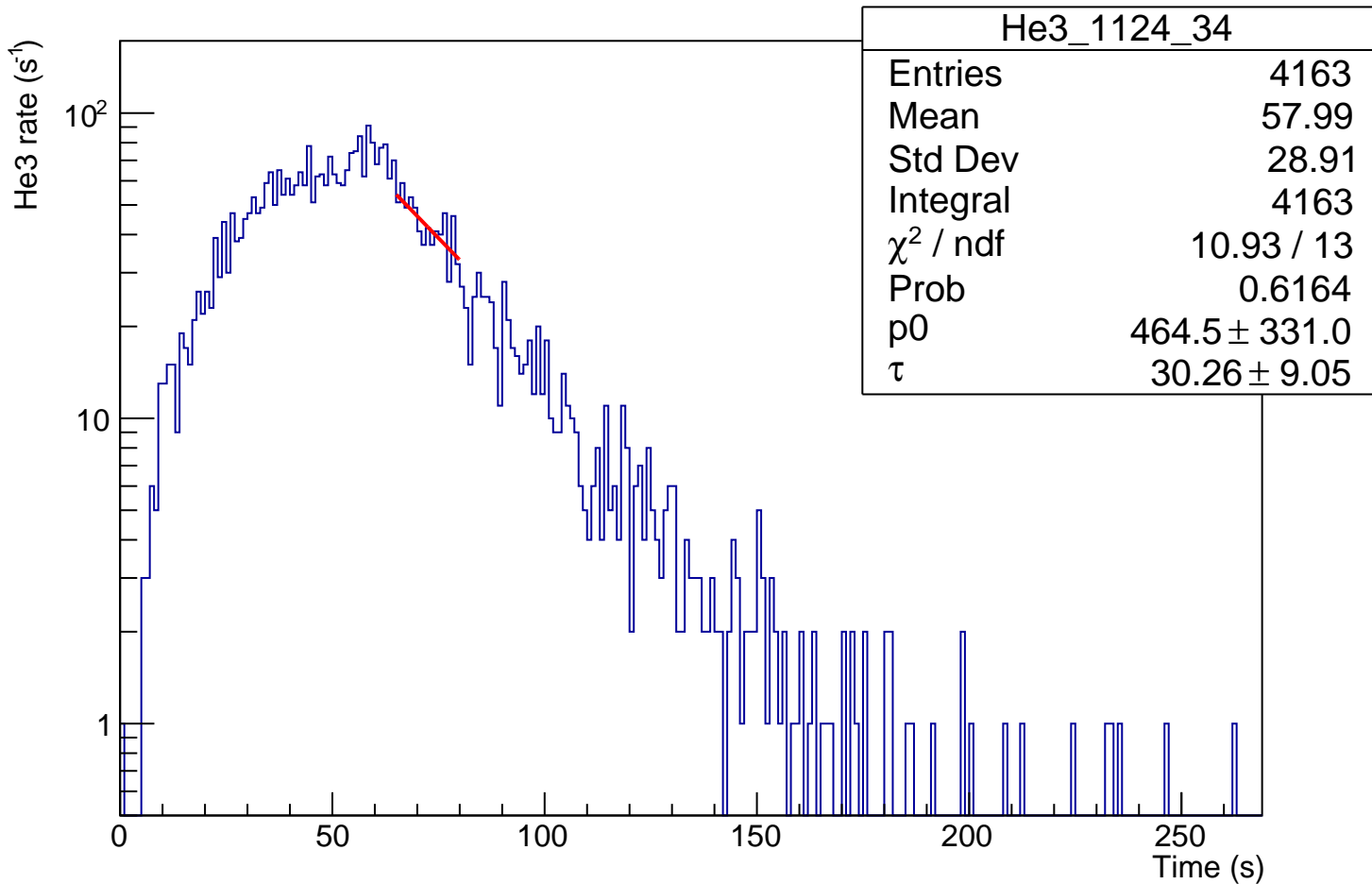
# He3 detector rate



# He3 detector rate



# He3 detector rate



**Average lifetime from He3 data:**

$$\tau = 21.9263827363 \pm 0.00206521009649 \text{ s}$$