

TCN18-292 (UGD22+UGA5+UGG3+UGA6, IV1-IV3) (single exponential fit + background, unnormalized)

UCN count

$10^4$

$10^3$

0

10

20

30

40

50

60

70

80

Storage time (s)

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

25.23 / 6

Prob

0.0003101

p0

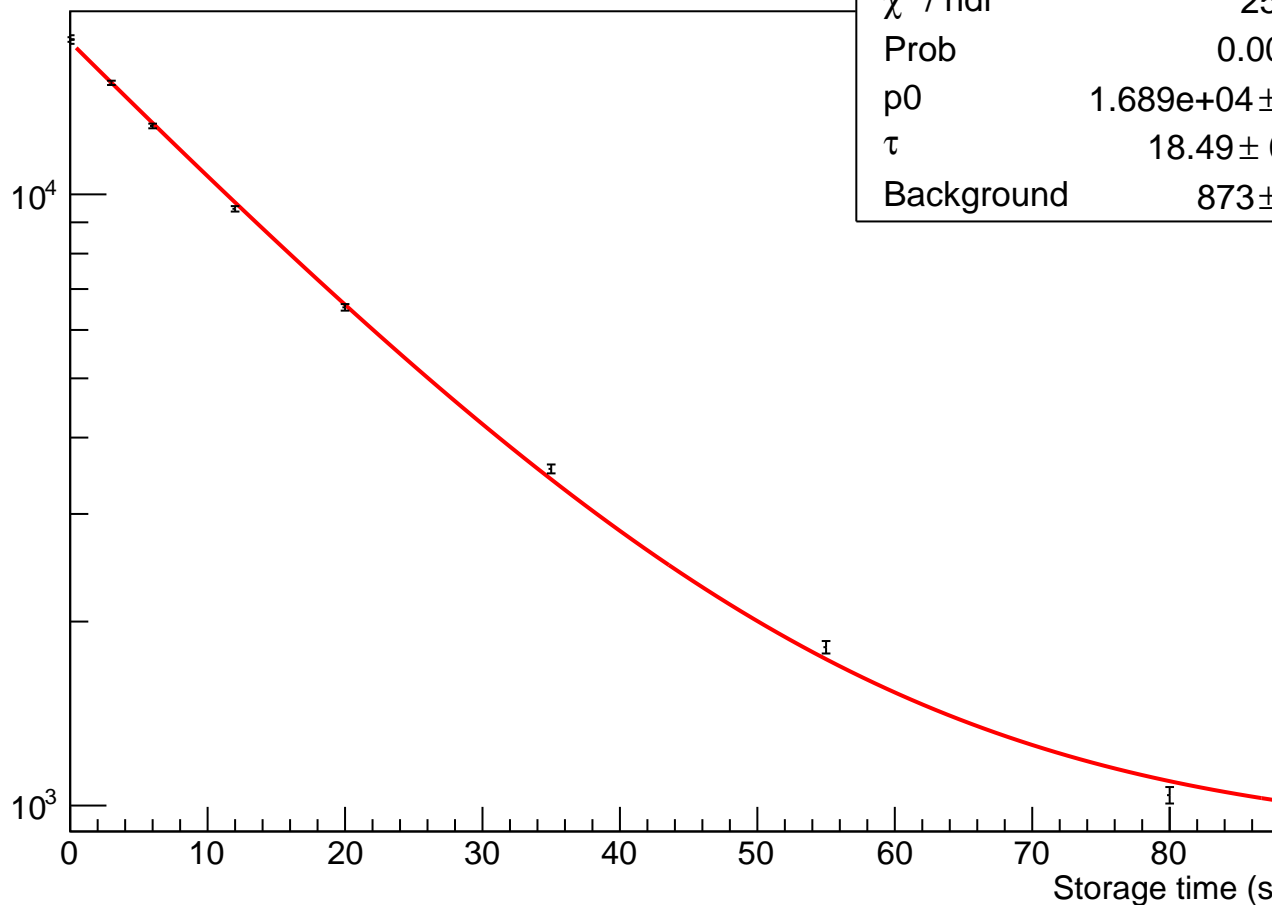
$1.689\text{e}+04 \pm 76.43$

$\tau$

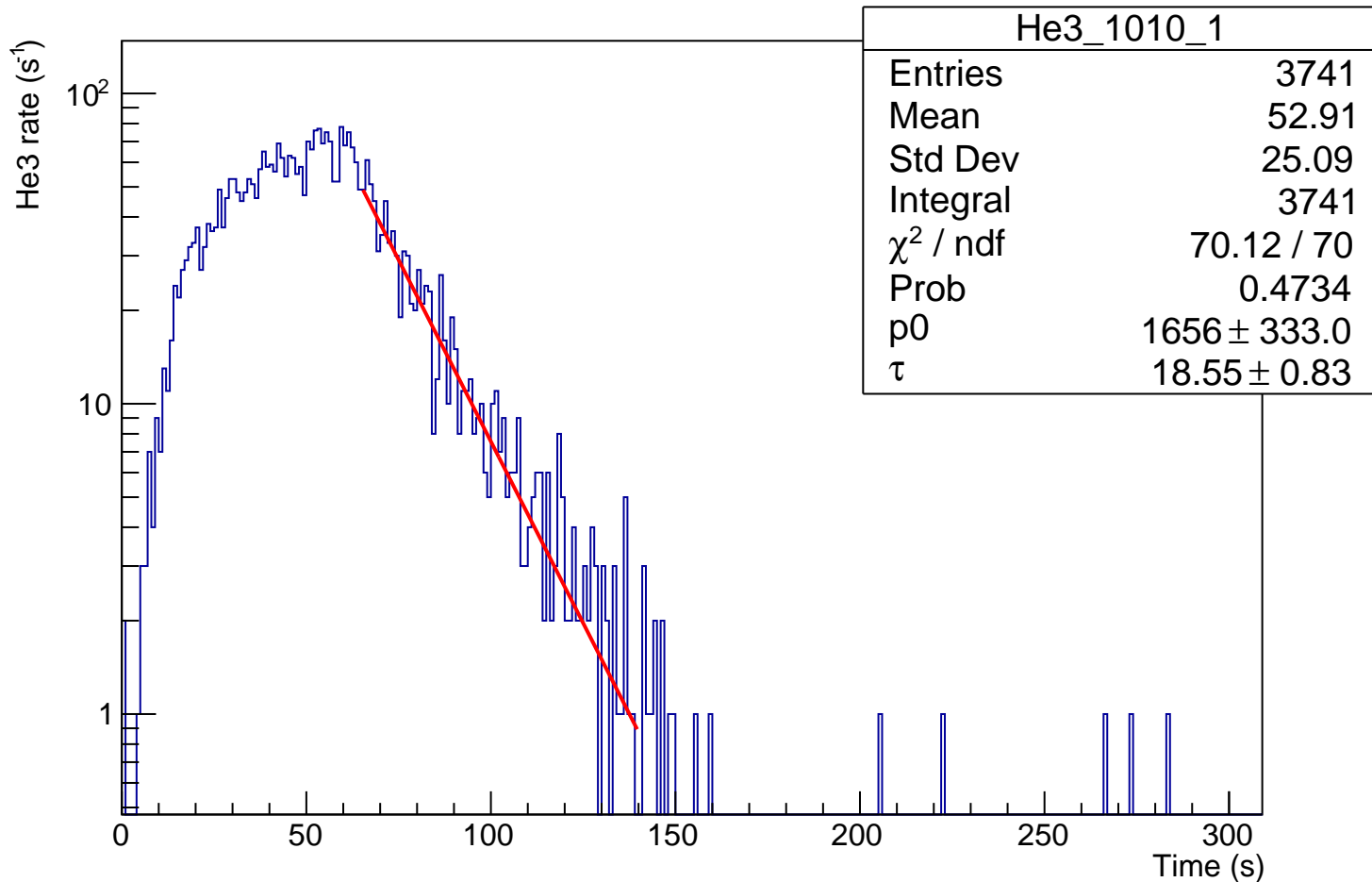
$18.49 \pm 0.2183$

Background

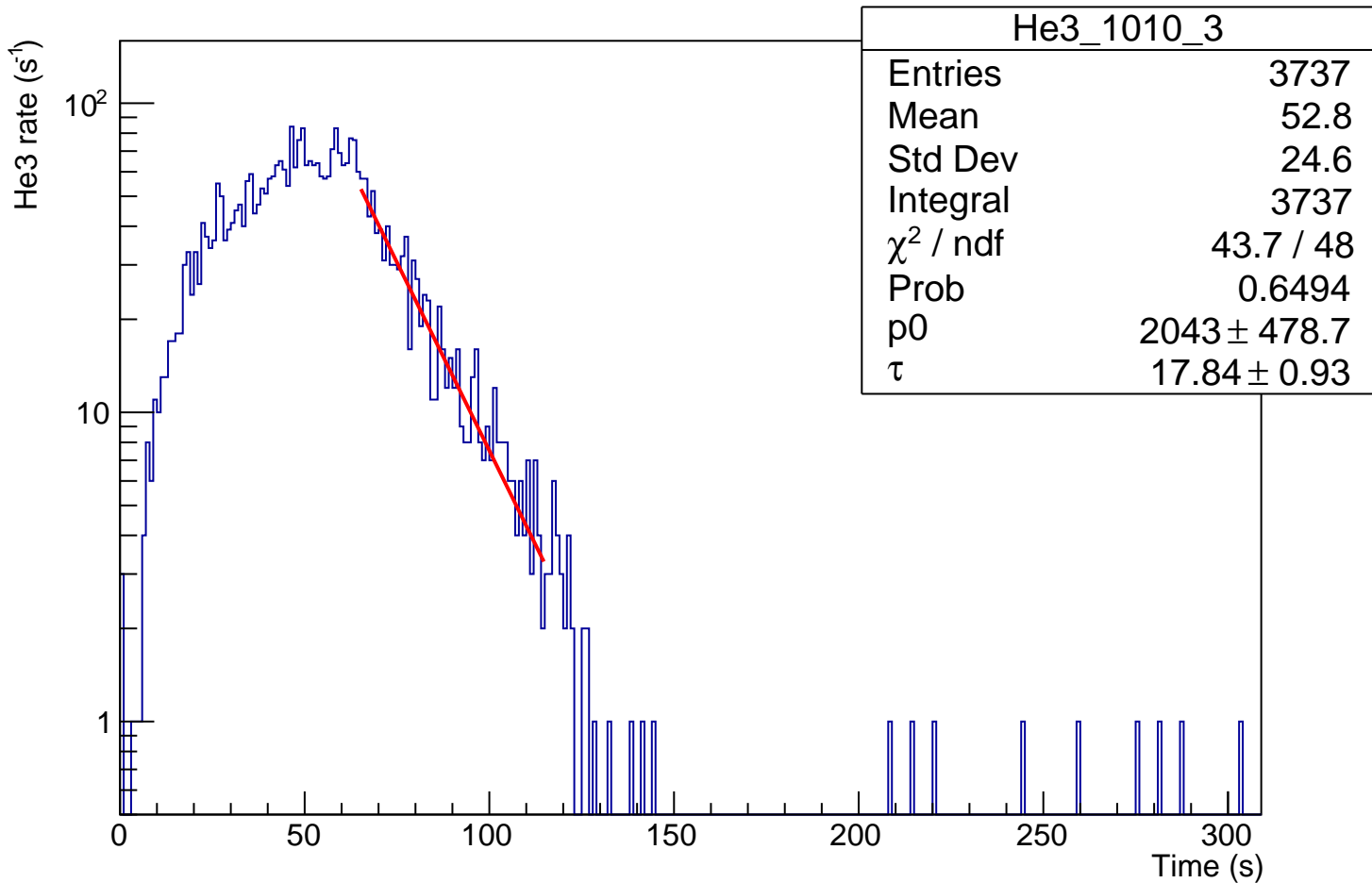
$873 \pm 36.06$



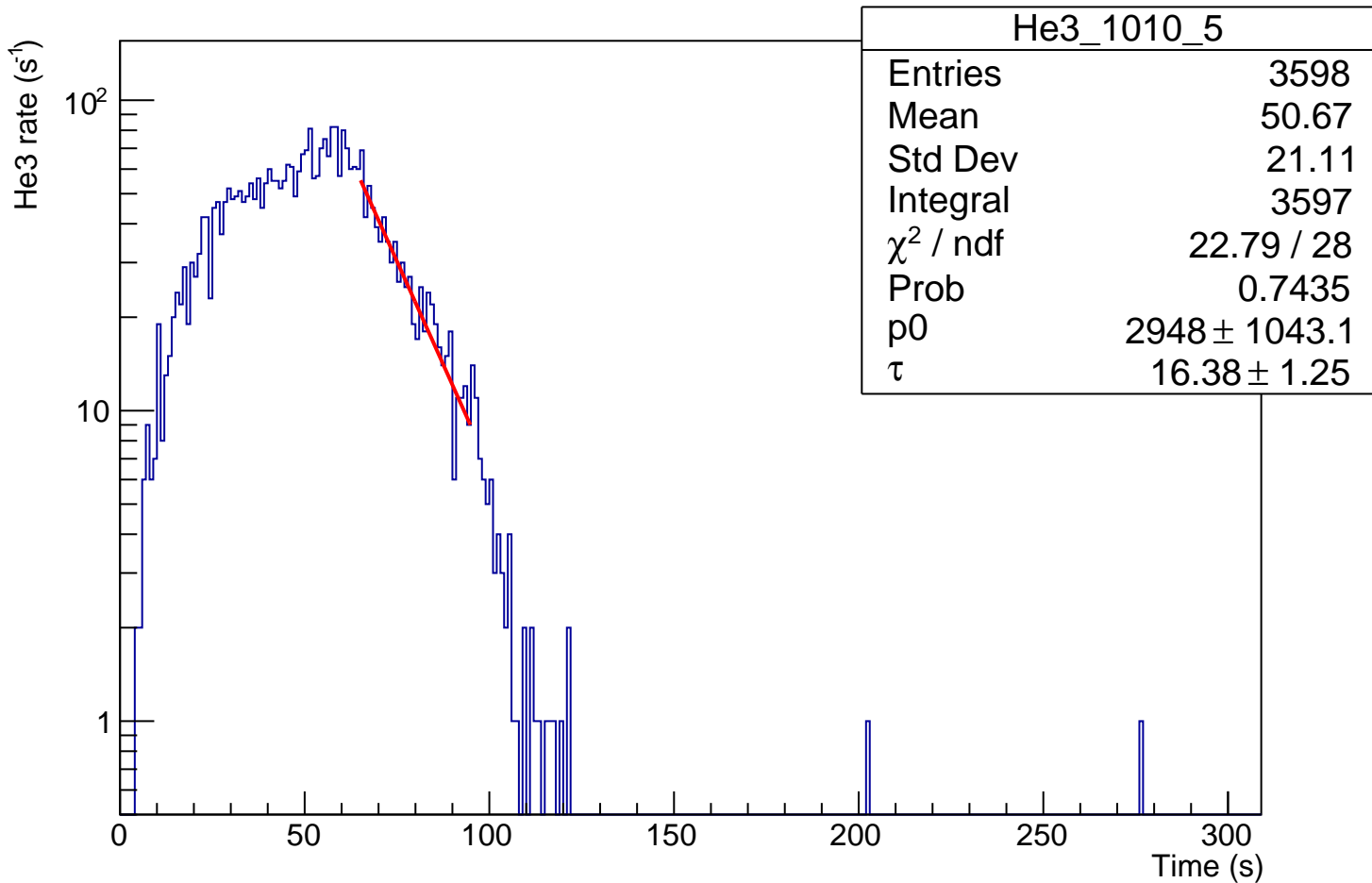
# He3 detector rate



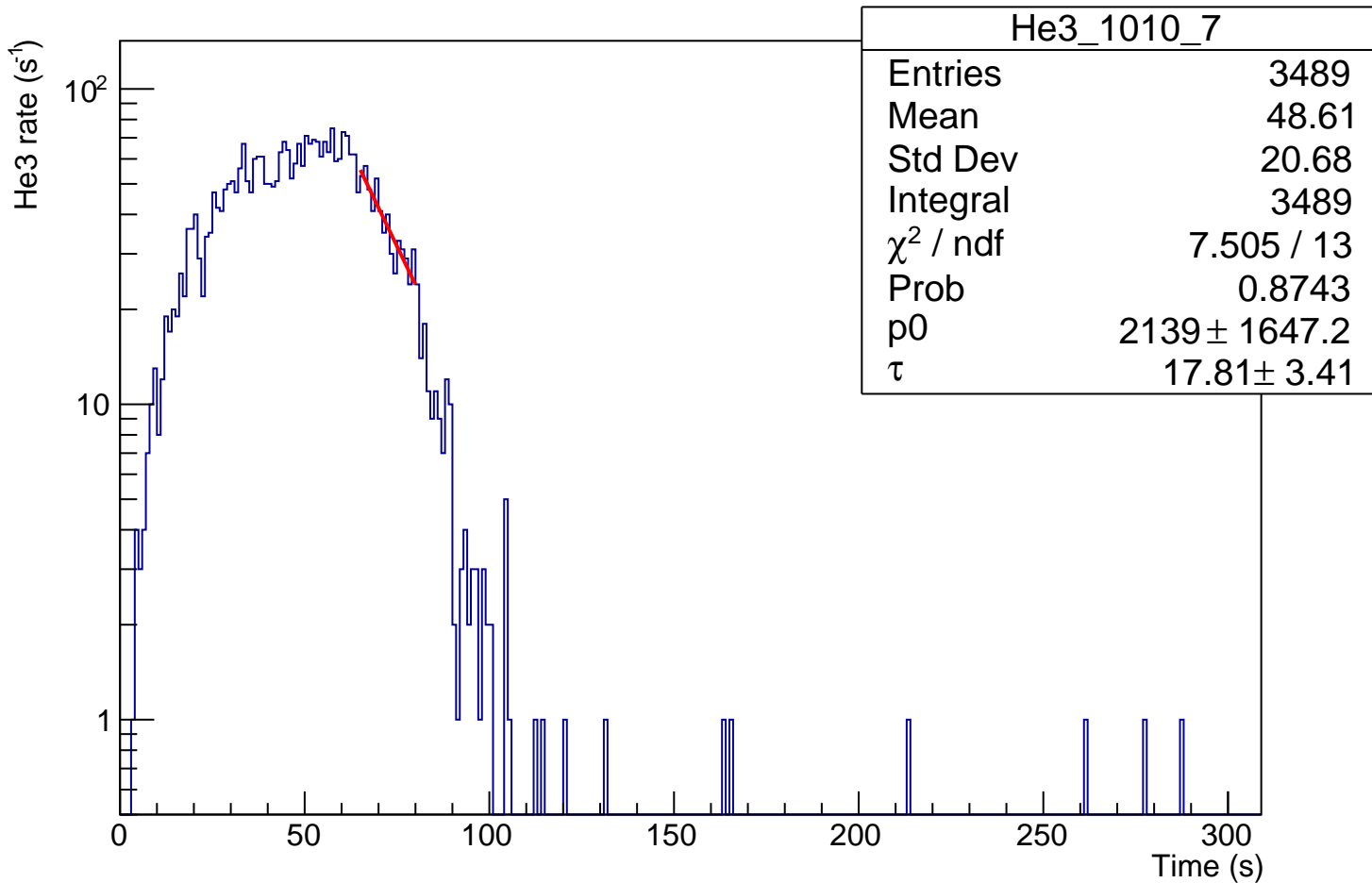
# He3 detector rate



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# He3 detector rate





**Average lifetime from He3 data:**

$$\tau = 17.8684454965 \pm 0.0898816879165 \text{ s}$$