

TCN18-482 (UGD22+2, IV1-IV3) (single exponential fit + background, unnormalized) χ^2 / ndf 71.45 / 5 Prob 5.109e-14 p0 $1.783e+04\pm100.6$ 20.46 ± 0.1979 Background 427.4 ± 20.57

80

100

120

Storage time (s)

UCN count

 10^{4}

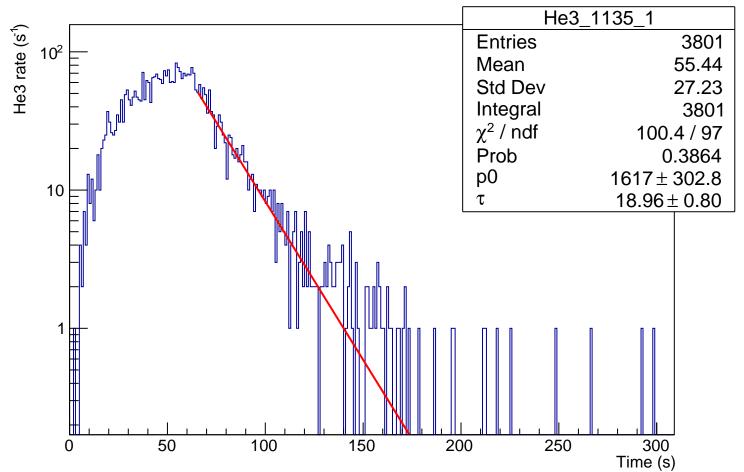
 10^{3}

20

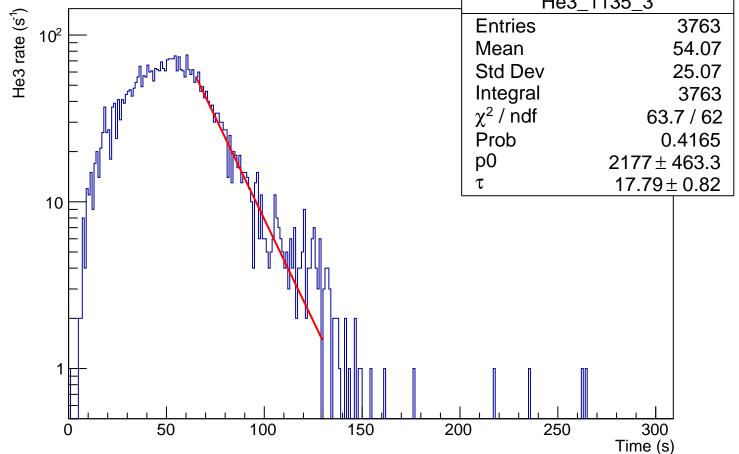
40

60

He3 detector rate



He3 detector rate He3_1135_3 He3 rate (\bar{s}^1) **Entries** 10^{2} Mean Std Dev Integral χ^2 / ndf Prob p0 10



He3 detector rate He3_1135_4 He3 rate (\bar{s}^1) **Entries** 3714 10^{2} Mean 50.9 Std Dev 22.13 Integral 3714 χ^2 / ndf 21.09 / 23 Prob 0.5758 p0 4022 ± 1523.1 15.52 ± 1.22 10

150

200

250

300 Time (s)

100

50

He3 detector rate He3_1135_5 He3 rate (\bar{s}^1) **Entries** 3774 10^{2} 53.21 Mean Std Dev 23.82 Integral 3774 χ^2 / ndf 38.12 / 43 Prob 0.6826 p0 1008 ± 226.0 21.61± 1.29 10

150

50

100

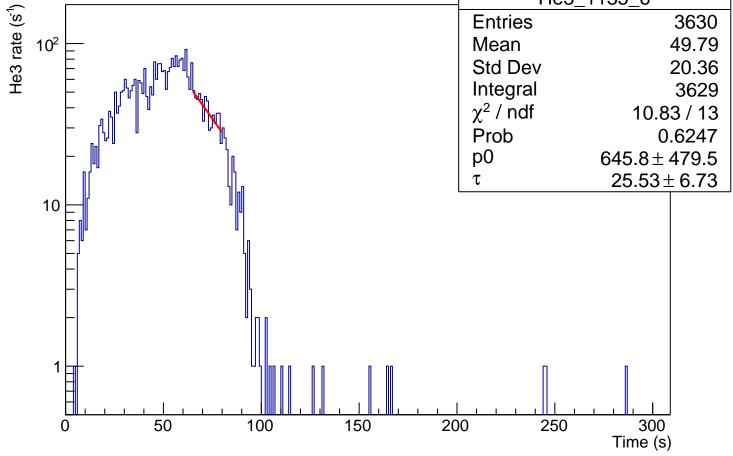
200

300

Time (s)

250

He3 detector rate He3_1135_6 He3 rate (s¹) **Entries** 3630 10^{2} Mean 49.79 Std Dev 20.36 Integral 3629 χ^2 / ndf 10.83 / 13 Prob 0.6247 p0 645.8 ± 479.5 25.53 ± 6.73 10



Average lifetime from He3 data:

 τ = 18.4283022765 +/- 0.0528471850056 s