

Table 13.24 from (1981AJ01): Beta decay of ^{13}O ^a

| Decay to | | $E_p(\text{cm})$ (MeV) to | | Relative intensity | % of all β -decays | log ft |
|-------------------------|-----------------|--------------------------------|------------------------|------------------------------|-----------------------------|------------------------------|
| $^{13}\text{N}^*$ (MeV) | J^π | $^{12}\text{C}^*(\text{g.s.})$ | $^{12}\text{C}^*(4.4)$ | | | |
| g.s. | $\frac{1}{2}^-$ | | | | 88.1 ± 3.4 ^b | 4.10 ± 0.02 ^b |
| 3.51 | $\frac{3}{2}^-$ | observed | | 100 | 10.7 ± 3.1 | 4.52 ± 0.13 |
| 7.38 | $\frac{5}{2}^-$ | 5.48 ± 0.05 | not seen | 0.33 ± 0.10 | 0.40 ± 0.19 | 5.22 ± 0.23 |
| 8.92 | $\frac{1}{2}^-$ | observed | | 3.5 ± 0.3 | | |
| | | | 2.56 ± 0.05 | | 0.54 ± 0.16 | 4.73 ± 0.14 |
| 9.48 | $\frac{3}{2}^-$ | observed | | 1.5 ± 0.3 | | |
| | | | 0.8 ± 0.1 | | 0.13 ± 0.04 | 5.18 ± 0.14 |
| | | | 3.12 ± 0.05 | 0.43 ± 0.15 | | |
| 10.36 | $\frac{5}{2}^-$ | observed | | 0.05 ± 0.03 ^c | | |
| | | | 3.97 ± 0.05 | 0.13 ± 0.07 | 0.019 ± 0.012 | 5.8 ± 0.3 |

^a (1970ES03). In addition there is some evidence for weak proton groups with $E_p = 3.44$ and 6.28 MeV (± 0.05 MeV). See also (1965MC09).

^b The ground state ft was taken to be 1.15 times that for ^{13}B (1970ES03). (1971WI07) find $(ft)^+/(ft)^- = 1.17 \pm 0.03$: see reaction 1 in ^{13}B .

^c Calculated value from the known ratio of the elastic and inelastic widths.