

Table 13.20 from (1991AJ01): Beta decay of  $^{13}\text{O}$  <sup>a</sup>

Decay to		$E_p$ (c.m.) (MeV) to		Relative intensity <sup>a</sup>	% of all $\beta$ -decays <sup>a</sup>	$\log ft$ <sup>b</sup>	
$^{13}\text{N}^*$ (MeV)	$J^\pi$	$^{12}\text{C}$ (g.s.)	$^{12}\text{C}^*(4.4)$				
g.s.	$\frac{1}{2}^-$	observed $5.48 \pm 0.05$	0.99	100	$89.2 \pm 2.2$	$4.08 \pm 0.02$ <sup>c</sup>	
3.50	$\frac{3}{2}^-$				$0.17 \pm 0.07$	$9.8 \pm 2.0$	$4.55 \pm 0.09$
7.38	$\frac{5}{2}^-$				$1.7 \pm 0.8$ <sup>d</sup>	$0.18 \pm 0.09$	$5.56 \pm 0.22$
8.92	$\frac{1}{2}^-$	observed		$4.83 \pm 0.51$	$0.61 \pm 0.14$	$4.66 \pm 0.10$	
9.48	$\frac{3}{2}^-$	observed	$2.56 \pm 0.05$	$1.44 \pm 0.25$			
				$0.98 \pm 0.14$	$0.16 \pm 0.04$	$5.09 \pm 0.11$	
10.36	$\frac{5}{2}^-$	not seen	$3.12 \pm 0.05$	$0.61 \pm 0.15$			
				$0.05 \pm 0.03$ <sup>e</sup>	$0.02 \pm 0.01$	$5.7^{+0.3}_{-0.2}$	
			$3.97 \pm 0.05$	$0.12 \pm 0.08$ <sup>d</sup>			

<sup>a</sup> (1990AS01). See also the earlier work by (1970ES03). I am indebted to Dr. A.M. Poskanzer for his comments.

<sup>b</sup> M.J. Martin, private communication.

<sup>c</sup> Estimated.

<sup>d</sup> Calculated value from the known ratio of the elastic and inelastic widths.

<sup>e</sup> Includes a calculated relative intensity of  $3.4 \pm 1.4$  to  $^{12}\text{C}^*(4.4)$ . I am indebted to Prof. F.C. Barker for this observation.