

Table 10.6 from (1984AJ01): Electromagnetic transitions in  $^{10}\text{B}$  <sup>a</sup>

Initial state	$J^\pi; T$	$\Gamma_\gamma$ (total) (eV)	Branching ratios (%) to final states at:					$\Gamma_\gamma/\Gamma$	
			g.s. 3 <sup>+</sup> ; 0	0.72 1 <sup>+</sup> ; 0	1.74 0 <sup>+</sup> ; 1	2.15 1 <sup>+</sup> ; 0	3.59 2 <sup>+</sup> ; 0		
0.72	1 <sup>+</sup> ; 0	$6.5 \times 10^{-7}$	100					$(2.3 \pm 0.3) \times 10^{-3}$	
1.74	0 <sup>+</sup> ; 1	$0.09 \pm 0.04$ <sup>b</sup>	< 0.2	100					
2.15	1 <sup>+</sup> ; 0	$(3.1 \pm 0.3) \times 10^{-4}$	$21.1 \pm 1.6$	$27.3 \pm 0.9$	$51.6 \pm 1.6$				
3.59	2 <sup>+</sup> ; 0	$(4.31 \pm 0.34) \times 10^{-3}$	$19 \pm 3$	$67 \pm 3$	< 0.3	$14 \pm 2$			
4.77	3 <sup>+</sup> ; 0	$0.020 \pm 0.004$	$0.5 \pm 0.1$	> 99					
5.11	2 <sup>-</sup> ; 0		$64 \pm 7$	$31 \pm 7$	$5 \pm 5$				
5.16	2 <sup>+</sup> ; 1	$1.5 \pm 0.1$ <sup>c</sup>	$4.4 \pm 0.4$	$22.4 \pm 0.6$	$0.7 \pm 0.2$	$64.8 \pm 0.9$	$7.7 \pm 0.3$		$0.87 \pm 0.04$
5.18	1 <sup>+</sup> ; 0	$0.06 \pm 0.03$			$\approx 100$				
5.92	2 <sup>+</sup> ; 0	$0.15 \pm 0.04$	$82 \pm 5$	$18 \pm 5$					$\leq 0.009$
6.03	4 <sup>+</sup>	$0.11 \pm 0.02$	$\approx 100$	<sup>d</sup>					$\leq 0.009$
6.13 <sup>e</sup>	3 <sup>-</sup>	$\leq 21$						$\leq 0.009$	

<sup>a</sup> For references see [Table 10.6 in \(1979AJ01\)](#).

<sup>b</sup> From [Table 10.7](#).

<sup>c</sup> See also [Table 10.8](#) here. Branching ratios and  $\Gamma_\gamma/\Gamma$  from [\(1979KE08\)](#). The mixing ratios  $\delta = 0.12 \pm 0.05, 0.03 \pm 0.03, 0.02 \pm 0.03$  and  $0.00 \pm 0.02$  for the transitions to  $^{10}\text{B}^*(0, 0.72, 2.15, 3.59)$ , respectively [\(1979KE08\)](#).

<sup>d</sup> Other branches < 3%.

<sup>e</sup> For  $\gamma$ -decay of higher  $^{10}\text{B}$  states see [Tables 10.8, 10.10, 10.11](#) and [10.12](#). See also [Table 10.16](#).