

Table 8.8 from (84AJ01): Electromagnetic transitions in  ${}^8\text{Be}$  <sup>a</sup>

Transition	$\Gamma_\gamma$ (eV)	$ M ^2$ (W.u.)
17.6 $\rightarrow$ 0	16.7	0.15
17.6 $\rightarrow$ 3.0	$8.15 \pm 0.07$ (M1) <sup>b</sup>	0.12
	$0.15 \pm 0.07$ (E2)	
17.6 $\rightarrow$ 16.6	$0.032 \pm 0.003$ <sup>c</sup>	$1.48 \pm 0.15$ (M1)
17.6 $\rightarrow$ 16.9	$0.0013 \pm 0.0003$	$0.15 \pm 0.04$ (M1)
18.15 $\rightarrow$ 0	3.0	
18.15 $\rightarrow$ 3.0	3.8	
18.15 $\rightarrow$ 16.6	$0.077 \pm 0.019$	$1.04 \pm 0.26$ (M1)
18.15 $\rightarrow$ 16.9	$0.062 \pm 0.007$	$1.51 \pm 0.17$ (M1)
18.9 $\rightarrow$ 16.6	0.168	0.053 (E1)
18.9 $\rightarrow$ 16.9	0.099	0.045 (E1)
19.07 $\rightarrow$ 3.0	10.5	

<sup>a</sup> See [Table 8.7 in \(79AJ01\)](#) for the references. See also [reaction 2](#) here.

<sup>b</sup>  $\delta(\text{E2/M1}) = 0.21 \pm 0.04$ , averaged over the energy of the final state.

<sup>c</sup> Nearly pure M1:  $\delta(\text{E2/M1}) = -0.014 \pm 0.013$ .