

Table 8.8 from (1984AJ01): Electromagnetic transitions in ${}^8\text{Be}$ ^a

Transition	Γ_γ (eV)	$ M ^2$ (W.u.)
17.6 \rightarrow 0	16.7	0.15
17.6 \rightarrow 3.0	8.15 ± 0.07 (M1) ^b	0.12
	0.15 ± 0.07 (E2)	
17.6 \rightarrow 16.6	0.032 ± 0.003 ^c	1.48 ± 0.15 (M1)
17.6 \rightarrow 16.9	0.0013 ± 0.0003	0.15 ± 0.04 (M1)
18.15 \rightarrow 0	3.0	
18.15 \rightarrow 3.0	3.8	
18.15 \rightarrow 16.6	0.077 ± 0.019	1.04 ± 0.26 (M1)
18.15 \rightarrow 16.9	0.062 ± 0.007	1.51 ± 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	

^a See [Table 8.7 in \(1979AJ01\)](#) for the references. See also [reaction 2](#) here.

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

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