



Selection rules

Δn unrestricted

$$\Delta l = \pm 1$$

(e.g. $s \leftrightarrow p$)

$p \leftrightarrow d$

but $s \not\leftrightarrow d$)

$$\Delta m_l = 0, \pm 1$$

Handwritten red notes:

$$2 \propto \frac{1}{2}, \frac{1}{2} \propto \frac{1}{2} \Rightarrow m = 2, 3, 4$$