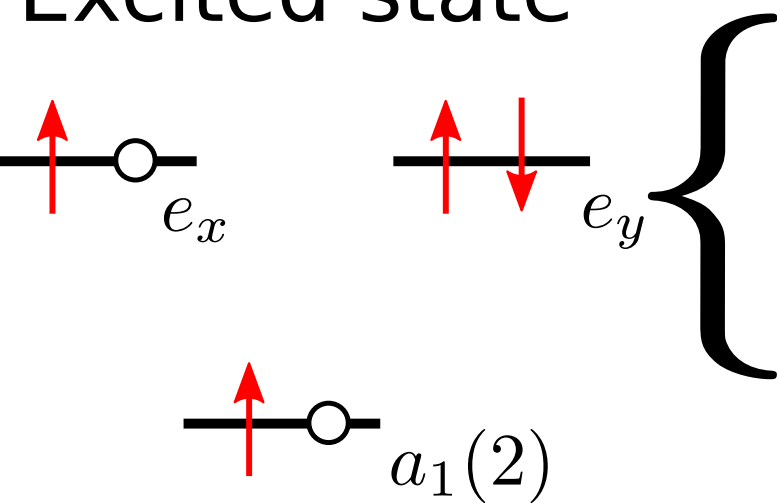


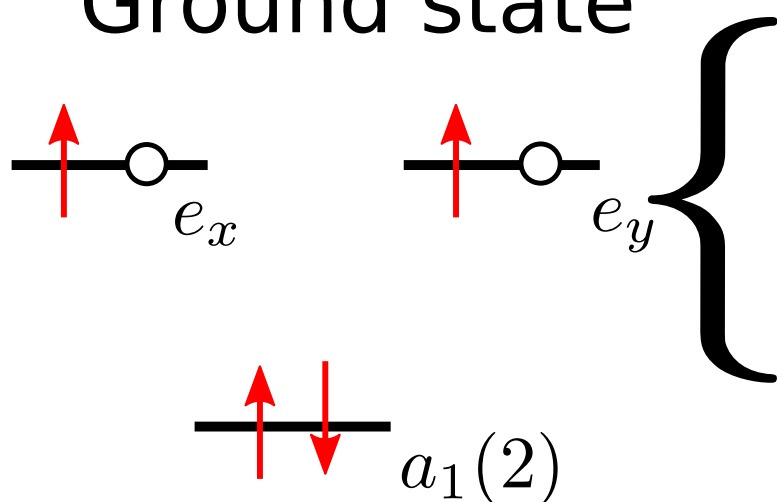
Excited state



$$\left. \begin{array}{l} |m_s = +1\rangle \text{ --- } |m_s = -1\rangle \\ |m_s = 0\rangle \text{ --- } \end{array} \right\}$$

$$\text{--- } |m_s = 0\rangle$$

Ground state



$$\left. \begin{array}{l} |m_s = +1\rangle \text{ --- } |m_s = -1\rangle \\ |m_s = 0\rangle \text{ --- } \end{array} \right\}$$

$$\text{--- } |m_s = 0\rangle$$

$S=1$

$S=0$