

Chem. 540
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Angular Momentum – Problem 5

Draw vectors (with correct length and orientation) that represent the states described by the angular momentum (or spin) quantum numbers indicated below:

(a) $s = \frac{1}{2}$, $m_s = \frac{1}{2}$.

(b) $l = 1$, $m_l = 1$.

(c) $l = 2$, $m_l = 0$.