

Electron Spin

We need FOUR quantum numbers to specify the electronic state of a hydrogen atom.

$$n, l, m_l, m_s \text{ (where } m_s = -\frac{1}{2} \text{ and } +\frac{1}{2}\text{)}$$

Actually, the nucleus (a proton) also has spin, so we must specify its m_s as well ...

We'll work some example problems next time.