Atomic Electron Configurations and Periodicity

Quantum #'s n, ℓ , m_ℓ do a good job of describing the tendency of electrons to be in a given place at a given time (orbital shape)

- BUT, one more identifying factor is needed:
 - Electrons behave as though they have a spin
 - This spin is quantized
- Defined by electron spin magnetic quantum number, m_s

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- m_s is either +1/2 or -1/2
- · Distribution of spins determines magnetic properties























