

# Basic Nuclear Physics

- An atom consists of a small, positively charged nucleus surrounded by a negatively charged cloud of electrons
- Nucleus
  - Positive protons
  - Neutral neutrons
  - Bond together by the strong nuclear force
    - Stronger than the electrostatic force binding electrons to the nucleus or repelling protons from one another
    - Limited in range to a few  $\times 10^{-15}$  m
- Because neutrons are electrically neutral, they are unaffected by Coloumbic or nuclear forces until they reach within  $10^{-15}$  m of an atomic nucleus
  - Best particles to use for FISSION

# Basic Nuclear Physics

**RJ Shavelson**



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